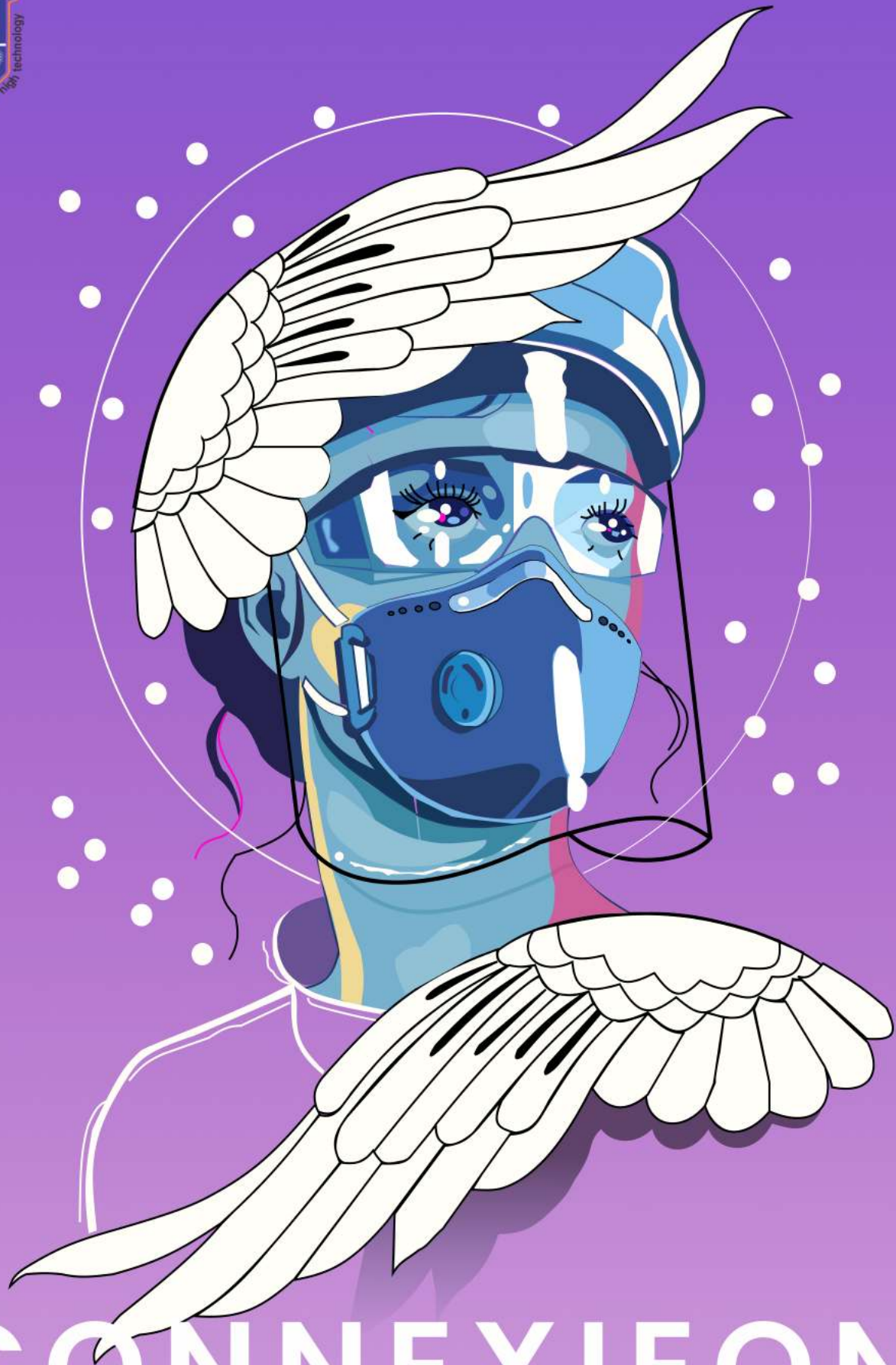




XAVIER INSTITUTE OF ENGINEERING



CONNEXIEON ²⁰²¹

REBOOTING LIFE

XIE VISION

TO NURTURE THE JOY OF EXCELLENCE
IN A WORLD OF HIGH TECHNOLOGY.

XIE MISSION

TO STRIVE TO MATCH GLOBAL
STANDARDS IN TECHNICAL EDUCATION
BY INTERACTION WITH INDUSTRY,
CONTINUOUS STAFF TRAINING AND
DEVELOPMENT OF QUALITY OF LIFE.

IN THE LOVING MEMORY OF...

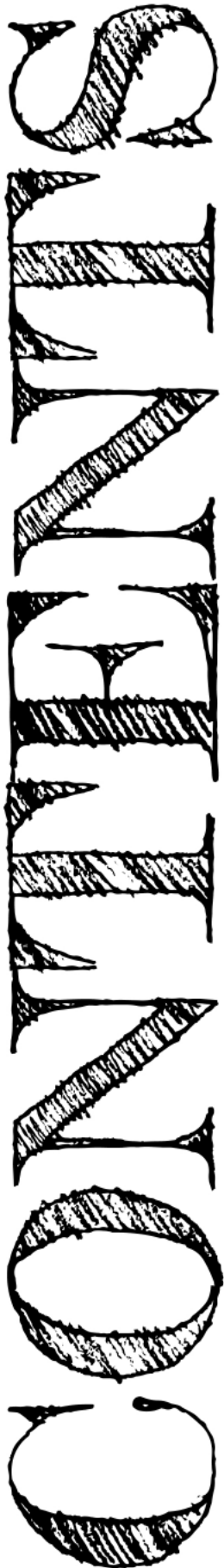


Fr. Errol D'Lima, S.J.

16th July, 1942 - 5th January, 2020

In January, 2020, we lost one of the most loved members of the XIE family, Fr. Errol D'Lima, S.J. He was a great educator who devoted his life to his students and was ever ready to provide advice and guidance whenever they needed it. He will also be fondly remembered by many Jesuits, priests, religious and lay persons whom he accompanied in their journey of faith. He was refreshingly honest in his quest for truth, always acknowledging our human limits in grasping it fully.

Dear Father, you will be greatly missed!



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CONNEXIEON

THE VOICE OF XIE

ConneXIEon has been developing a profound bond among Xavierites for the past fifteen years. It endeavours to mirror the values and achievements of our institute to the external world. Another important purpose of this annual college magazine is to unlock the hidden potential within students, faculty and staff members. In the context of this ongoing catastrophic situation affecting the entire world created by a tiny virus, the magazine essentially aims to lend a voice to its community to express itself and inspire many others.

Along with publishing up-to-date, qualitative and research-oriented articles, it reflects relevant and insightful reviews and reports of activities and events at our institute. The magazine aspires to be vibrant, engaging and accessible, and, at the same time, harmonizing and challenging. Every year, a special theme is chosen for the magazine and, considering the current situation, the theme of ConneXIEon 2021 is “Rebooting Life.” It reflects the belief that one must continually strive for upgrading and updating oneself in various spheres of life to face the toughest challenges. The articles published in this issue centre around notions of lockdown, online education, and evolving classrooms. It also seeks to inspire the hope of discovering light even in darkest moments.

The magazine specially preserves a connection to the institute’s vision, that is, to nurture the joy of excellence in a world of high technology and mission, to strive to match global standards in technical education by interaction with industry, and continuous staff training and development of its quality of life. The magazine provides a perfect platform to highlight the technical, literary and artistic segments of those affiliated to XIE.

As Head Curator of ConneXIEon, I would like to thank all the students, the teaching and non-teaching faculty, the deans and the heads of departments, and the managing committee of this institute, for their thoughtful and continuous support in the progress of its remarkable creation, the ConneXIEon. Without my awesome team, it wouldn’t have been possible, even remotely, to turn the idea of this magazine into reality. My heartfelt thanks to each everyone for your immensely important contributions.

Prof. Meghna Borate
Department of Applied Sciences and Humanities F.E.
Head Curator of ConneXlon 2021

PREFACE

Greetings Readers,

We are excited to present to you the 16th Edition of our annual college magazine, ConneXIEon with Xavierites displaying their creativity, knowledge and skill in languages and technology. The students' artistic ability is also on display through paintings, sketches and photography.

This year has been quite unforgettable, thanks to the global pandemic throwing us all into a lockdown which extended from a mere two-week's break from college into whopping nine months and counting. This has been a real dampener to all our planned activities, and has created an atmosphere of enormous melancholy around us. Yet, as we take a step back and re-evaluate our priorities and appreciate the life we have lived, we truly believe that adversity brings out the best in people. This allows us to break the monotony of the lockdown and re-invent ourselves to adapt to the new normal. As Marie Curie had rightly said,

“Nothing in life is to be feared, it is only to be understood. Now is the time to understand more, so that we may fear less.”

We are truly humbled by the amazing response we have received for setting up the current edition of the magazine. We sincerely thank each and every student and staff member for their contribution in bringing this year's magazine to fruition despite being in lockdown and socially distanced.

“Ultimately, the greatest lesson that COVID-19 can teach humanity is that we are all in this together.”– Kiran Mazumdar-Shaw

As we bring you this year's edition – ConneXIEon 2021: Rebooting Life, we hope it brings a smile to your face and a new hope for the year ahead as you delve into its contents. 😊

Happy reading folks!!!

– The Editorial Team
ConneXIEon 2021

EDITORIAL TEAM



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NEIL
PINTO



EDITOR IN CHIEF
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PAWAR



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ALISHA
ALAPPATT



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**GRAPHICS
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AAKASH RATHOD



**GRAPHICS
DESIGNER**
ROHAN KHAMKAR



MESSAGES



DIRECTOR'S MESSAGE

Dear Readers of ConneXIEon,

The Editors have to be congratulated for coming up with “Rebooting Life” as the theme of this year’s ConneXIEon: it is topical, graphic, and very striking. It’s not likely that anyone anywhere has escaped during the pandemic from what computers often do, when they hang or freeze due to hardware faults or software crashes. With Covid-19 we are helpless. The Staff and Students of XIE have remarkably got out of it by “rebooting” themselves like computers have to. For a soft reboot, the Ctrl+Alt+Delete keys are pressed simultaneously, and for hardware reset the power button is held down for 5 seconds, and the computer starts to work again with new vigour. Our human systems were down since the 22 March lockdown but, speaking only about those in XIE, a quick sizing up of the situation, an honest acceptance of responsibility for misuse of natural resources, global warming, and environmental degradation, led to a very effective “rebooting.” Its outcome could not have been imagined before. The wearing of masks and keeping “social distance” made us more morally aware; online classes saved travel time and made our brains more alert to give novel and effective solutions to problems that arose. Family ties have been strengthened.

It has been amazing that academic life has been restricted to the confines of one's room at home, did not narrow the world outlook or give priority to personal concerns. The religious spirit seems to have come to the forefront in a rather natural and spontaneous way, causing greater sensitivity to others' predicaments and, therefore, to an effortless social outreach. We reached out not only to the widows and the very poor in the environs of XIE but also to the migrants from Uttar Pradesh, Bihar, Orissa, and Jharkhand, and even to people beyond. With St Xavier's College, Mumbai, and Xavier University, Bhubaneswar, XIE has offered 30 online courses from March 2020 onwards. In collaboration with the Jesuit Refugee Service working in Afghanistan, XIE has offered, besides monetary help, online courses on Python, R language and Ethical Hacking to the students of Herat and Bamyon Universities in that beleaguered country. XIE is very grateful to the professors who so graciously offered their services. The "rebooting" has helped not so much the others as the ones who had the courage to undergo it. You are bound to find **ConneXIE** on 2020-21 a great read.

-Fr. Dr. John Rose, SJ



PRINCIPAL'S MESSAGE

Xavier Institute of Engineering (XIE) was established in the year 2005. It runs four-year degree courses leading to Bachelor of Engineering (B.E.) in the following three streams: Computer Engineering, Electronics and Telecommunication Engineering and Information Technology. All the three courses are recognized by AICTE (All India Council for Technical Education), DTE Maharashtra and approved by the University of Mumbai. The B.E. degree, after completing all the course requirements with a project satisfactorily by all the admitted students, is conferred by the University of Mumbai.

It is a delight to mention at this stage that the institute has been successfully accredited by The National Assessment and Accreditation Council (NAAC) and now is looking forward to obtaining the recognition by the National Board of Accreditation (NBA). It is a move to assess and ensure the quality of education offered to all admitted students of XIE and to keep the pace of the institute up-to-date in terms of academic and administrative performance resulting in brightening students' prospects with an all-round development.

Each issue of our magazine "ConneXIEon" is a milestone that marks the growth, which unfolds Students' imagination and gives life to their thoughts and aspirations. It unleashes on a wide spectrum of students' creative skills ranging from writing to editing and designing the magazine. It also envisions the achievements of our students in various fields of their study. I congratulate the entire editorial team for their hard work and dedication in bringing out this magazine, which is like achieving their dream successfully.

This year's theme "Rebooting Life" revolves around life in the times of Covid-19 and how mankind has calibrated their daily functioning, abiding to the Social Distancing norms. With the "New Normal" setting its foot right, the human race has been giving a tough fight, helping one another and supporting one another. This version of Connexion 2021 focuses on bringing out the best of XIE during these challenging times.

Innovation and creativity are fundamental to all academic disciplines and educational activities. To build up and inculcate these creative habits and to stay apprised with the current requirements and the demands of industry, the institute is conducting workshops on various subjects like IOT, Machine Learning, spoken tutorials, Python, Robotics, Digital Image Processing and Artificial Intelligence to name a few. To invoke the creative genius, to inculcate habits leading to productivity, to develop decision-making and to concurrently work within a team, the students have been conducting and managing the entire cultural fest, Spandan, the technical fest, Transmission, the sports fest, Sparx, and the TEDxXIE event on their own. The students have also participated in intercollegiate competitions and have won several prizes for themselves and for the institute. The institute beams with success and grandeur because of its students and their contributions.

I wish all the students of XIE a great success in their Endeavours'!

-Dr Y. D. Venkatesh



OMBUDSMAN'S MESSAGE

Rebooting Life Anew

Rebooting life is not like restarting a computer and functioning in the same old way. If it is to have any deep meaning, it must be a way of life that is qualitatively different from the so-called normal style of life we have come to accept unquestioningly. What does this imply in practice?

It implies, first and foremost, that we very diligently - demanding the highest excellence from ourselves - train ourselves towards a good, decent livelihood, and a great career. It particularly includes equipping ourselves to function efficiently in our technologically complex world that, day by day, is becoming more and more sophisticated. The above, however, is only one aspect of our life, undoubtedly, very necessary and important.

There is another aspect of our life that is just as important, if not more. This has to do with, not merely earning our livelihood and becoming rich, powerful, and famous, but with learning to live beautifully, that is, to live a life that is rich, full of joy, peace, meaning and purpose, and to especially flower in the things that are deeply human: kindness, care, affection, love, compassion, and wisdom. In the so-called normal way of living, often, the whole of life is narrowly reduced to the first aspect; sadly, at the cost of the true quality of life. It is not a question of either or. There must be a harmonious marriage of both aspects of our life, learning how to earn and learning how to live.

In this lies the real challenge of rebooting life in the context of the pandemic. The pandemic, in fact, has only uncovered the underlying crisis inherent in our present way of living all over the world, which is at the root of all the things going wrong in our world, including environmental degradation, extreme inequality and economic disparity, exploitation and oppression of women, children, minorities, and other vulnerable people, blind identification with race, caste, religion, nation, and ideology that is destroying harmonious coexistence, and the insane build-up of arms and armaments that can destroy humanity and the planet - to mention the most important. It is rebooting life through the creative integration of the two aspects of our life - demanding excellence in ourselves in both - that we can hope for a new humanity and a new world.

- Fr. Lancy Prabhu, S.J.

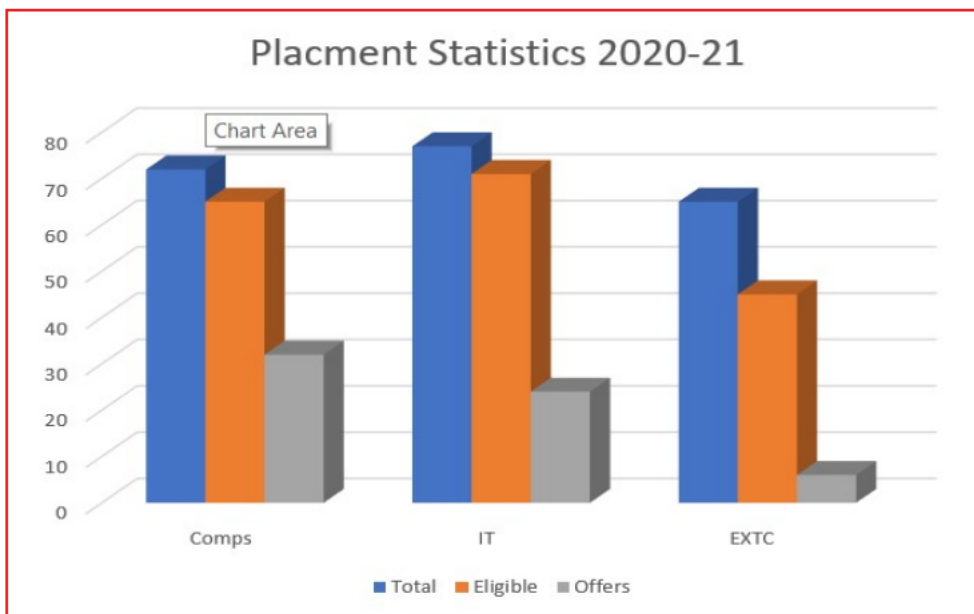
PLACEMENT AND TRAINING REPORT

2020-21

Dear Xavierites,

I am pleased to present the report for the 2021 batch. Whilst COVID-19 has spelt doom for the majority during the arena causing mass-scale layoffs and pay cuts, the scenario has not been so bleak for Xavier Institute of Engineering. As typical, for this batch additionally we were capable of appeal to appropriate number of companies for placements during the ongoing pandemic situation.

We started our placements for 2021 batch in the month of July 2020. Xoriant Solutions placement drive was conducted on 27th and 28th July, 2020. About 140 B.E. 2021 batch students participated and 10 students were placed with a package of INR. 4.5 LPA.



The highlight of the placement season was the presence of Artificial intelligence and Machine Learning company Quantiphi for campus placements in June which selected 16 students and offered them a package of INR 8.5 LPA.

Placement drive was conducted on 3rd and 4th October, 2020.

So far, we have received 62 offers, out of which 29 offers are of INR 5 LPA or above. And the rest of the students have received offers between 3 LPA to 5 LPA.

Overall, this year's placement has been better as compared to previous years. Hopefully this trend will continue for the upcoming batch.

– Mr. Naveen Kukreja
Training and Placement Officer

COMPANIES VISITING CAMPUS



AND MANY MORE.....



INTERVIEWS

General Secretary



HIMANSHU
GHARAT

- **How were you motivated to apply for the post of General Secretary?**

I believed that being the part of the council was the platform where one can nurture and grow as a person. I had decided to contribute my part towards the continued success of our college and joining the Student Council and be a part of the decision-making process was the best way to do so. Also, I was greatly influenced by the efforts and work carried out by previous Council members and it kept me motivated to be a part of the same.

- **What new ideas do you bring to the table as the GS?**

Being selected as the GS is a major breakthrough for me where I have an opportunity to plan and execute activities for students as well as the staff of XIE. I wish to have activities not only for academics but also to cherish extracurricular activities that would inculcate and scale up unity and teamwork among my peers. My goal is to provide a platform for everyone to express their skills and talents.

General Secretary

- **How has the pandemic changed your plans for conducting events?**

The pandemic has certainly been a setback in our plans to carry out activities. The restrictions due to the lockdown made it impossible to carry out some staple events which was a bit of a disappointment. However, being away from people with whom we would spend time with and be in close proximity in the college premises often has given us the reason to stay connected with them through virtual platforms. The plan as of now is to keep everyone connected and cherish the moments through virtual platforms and to plan optimistically to carry out future events.

- **We know it hasn't been long enough in your tenure, but what would be your advice to all the future Council aspirants?**

I would say that facing obstacles is inevitable, giving up on them is optional. Always believe in yourself and keep striving for betterment. The only way to make things happen is to give it your all. Achieving what we desire for feels even better if it's achieved through intense efforts but also for every council aspirant, it's always better to know what's the best outcome that can be achieved by assessing what you have and where you are.

Assistant General Secretary



LINCY LOIS
BRIAN

● **How were you motivated to apply for the post of Asst. General Secretary?**

No wonder ! By digging the hard ground, flows pure water which has no boundaries. I was extremely fortunate, to be given a chance by XIE in the Second year as Assistant Cultural Secretary, Event Executive of TEDxXIE, Reporter of Magazine committee, Editor of Computer newsletter, Volunteer in Marketing committee, TPO envoy, etc which has helped me to sow some seeds in the cultural, technical and more more fields in XIE which bore fruits of experience, knowledge, tolerance and patience which motivated me to apply for the post Assistant General Secretary to implement and to remove hurdles in the field for the betterment , prosperity and smooth flow of these events and enhancing the blossoming of young talent in our college.

● **What new ideas do you bring to the table as the AGS?**

Oh oh! I have no superb, world-changing ideas as such but the passion to innovate new art of creativity has no boundaries and our strong tiny desire will carry us forward and allow us to excel on so many levels.

Assistant General Secretary

- **How has the pandemic changed your plans for conducting events?**

The pandemic has given a fresh perspective to everyone's thinking and capabilities. It is mind-boggling to witness the new and creative ideas our XIE family showcased. For example, online creative games, dance performances, online competitions in social media and many more exciting things. Social distancing put quite a few hurdles in our path but it allowed us to obtain a completely new experience and enjoyment that not only included Xavierities but also all the teaching and non teaching staff as well.

- **We know it hasn't been long enough in your tenure, but what would be your advice to all the future Council aspirants?**

I am very confident that future council members will always strive to up the ante and push the success rate even higher than us.

Give your best, and never forget to appreciate the best, whether it is something small or attractive talents from everyone without underestimating anyone.

"Every talent always paves great paths in life for the future".

Technical Secretary



BALJOT SINGH KOHLI

- **How were you motivated to apply for the post of Technical Secretary?**

I have always been active in all our college events. I love opportunities where I can truly do something for our college and bring in a positive change. I was motivated to apply for the TS post because of my inclination towards technology and everything about it. I thought that with my enthusiasm and vision the whole technical community of our college will be greatly benefited. Hence applying for the post of TS felt like the natural choice for me.

- **What new ideas do you bring to the table as the TS?**

I want to bring in cutting edge ideas from technical advancements all around the world to our college. I think our college and its students can greatly benefit from having information sessions and seminars regarding upcoming technologies like blockchain development, neural networks etc. I also want to organise a hackathon which involves some great competitive coding but also I want to have a basic coding session for the FEs before the hackathon. My motto is simple - I want to bring in new ideas but at the same time everyone should be a part of the vibrant technical community of our college and enjoy the events !

Technical Secretary

- **How has the pandemic changed your plans for conducting events?**

The pandemic has affected our ability to conduct offline technical events like we used to before in our college. But nevertheless we aren't thinking about this minor setback. We are rather focusing on organising the best possible events online. We are working on making online events as effective, informative and enjoyable as possible.

- **We know it hasn't been long enough in your tenure, but what would be your advice to all the future Council aspirants?**

I personally would advise the aspirants to be true to themselves and just be yourself. Highlight your strengths and embrace your weaknesses. Go ahead and apply, because selected or not, this process will make you better as an individual. And the trick is to always have a smile on your face and confidence in your abilities.

Assistant Technical Secretary



ARYA
SARDA

- **How were you motivated to apply for the post of Asst. Technical Secretary?**

“It’s always about the goal, never about the role.” I was motivated to apply for the post of ATS because it felt like an opportunity to give back and bring in some new ideas to the technical community of our college. My love for numbers and computers made me feel that ATS is the best possible role for me. This is an amazing opportunity to fuel my growth as an individual. I want to make sure I justify my role as the ATS to the best of my ability.

- **What new ideas do you bring to the table as the ATS?**

I want to bring in an information exchange booth in collaboration with the professors and alumni where we can let the students know which online courses and certifications are relevant in today’s times and are worth investing our time and money in. This will help prevent wastage of time and money over fraudulent courses and certifications. I also want to bring in seminars where alternate STEM fields like financial engineering, business analytics etc are discussed which can be pursued after completing our bachelors in engineering. This will give the students a wider scope rather than just having the traditional engineering career paths.

Assistant Technical Secretary

- **How has the pandemic changed your plans for conducting events?**

The best part of technical events is that the events can be held offline and online with the same effectiveness. The plan to hold the events is still the same, just the platform will be online instead. We will focus on encouraging people to participate even if the event is held online. The good part here is that people can take the advantage of all the technical events from the comfort of their homes.

- **We know it hasn't been long enough in your tenure, but what would be your advice to all the future Council aspirants?**

My advice will be to filter where your strength lies and then decide on what post you really think you can do justice to rather than applying to all the posts. Then it is very important to communicate the answer to the question 'Why this post?' to the selection committee. Be sincere in your approach and enjoy the selection process to get the best results. All the best to all the future council aspirants !

Cultural Secretary



JANHVI
MATHKAR

● **How were you motivated to apply for the post of Cultural Secretary?**

As I had worked in different committees in previous years, I was inspired by the efforts put in by everyone and the fun and laughter that brought joy to everyone motivated me to become a part of the council and thus the CS. Besides, I was inclined to arts and cultural activities since childhood so it came naturally to me to fulfil this responsibility.

● **What new ideas do you bring to the table as the CS?**

The social trends keep changing very quickly, hence it is important to bring to the table something that is trending; be it games or events. Though sometimes reforming is much better than experimenting. As for this year, as most activities were online, the virtual idea itself was something new and an exciting challenge; as the events seemed the same but its organization and keeping the audience engaged was more difficult than an event conducted in the college premises.

Cultural Secretary

- **How has the pandemic changed your plans for conducting events?**

The pandemic has been both a boon and bane. As reconnecting with people was not a choice but a need for everyone, it didn't have the same impact as physically meeting everyone. Therefore, online events were a task. But on ground events happened easily as get-togethers after 6 to 8 months was a must. The pandemic made us innovate with our old ideas of conducting an event and it was an exciting and educative experience.

- **We know it hasn't been long enough in your tenure, but what would be your advice to all the future Council aspirants?**

The Council is for the students and therefore any decision taken should be taken considering the best interest of students and the faculty and the college. The true learning would happen during the tenure of the individual's work but an advice as such would be to get good experience by working in the first years of college. And keep in mind that no work is big or small. The posts are important but every person in every team makes the events and fest happen, so be a part nonetheless.``

Assistant Cultural Secretary



PRATHAMESH
JAWALE

- **How were you motivated to apply for the post of Cultural Secretary?**

Ever since I joined XIE the very first thing that caught my mind was the Council and the planning process behind the events organized in the college. And I have loved organising events and being a part of it from the very beginning since school days. So I was keen to be a part of it and work with the team to make XIE culturally rich too with active participation.

- **What new ideas do you bring to the table as the CS?**

Having the creative mind to conceptualize fests in this lockdown, organizing various events to keep the students engaged in cultural activities. It is also very important to keep up student participation when organizing events in the virtual space.

Assistant Cultural Secretary

- **How has the pandemic changed your plans for conducting events?**

All the events were supposed to be offline but due to pandemic it's not possible. So, we are constantly brainstorming to bring online events to fill the offline void. We are optimistic and will make the best of the current conditions and bring to you events even in this new normal.

- **We know it hasn't been long enough in your tenure, but what would be your advice to all the future Council aspirants?**

My advice is that if you genuinely want to work for the council just show 100% transparency in your thoughts and actions. And keep analysing how events are carried out currently and try to build you own conscience. Also being aware ie getting experience in FEs will matter a lot.

Sports Secretary



AAKASH
RATHOD

● **How were you motivated to apply for the post of Sports Secretary?**

Sports has always been my area of interest, and seeing this opportunity in our college in the first year, made me apply for this post in my senior year. Being from a sports background from my school made me a keen enthusiast regarding this post. Seeing the sports events being conducted in this college, attracted me to be a main host of these events someday and implement my ideas in conducting the events

● **What new ideas do you bring to the table as the SS?**

As the Sports Secretary, I want to make sure that we complete at least one phase of our sports fest, Sparx. I wanted to conduct our sports event in a manner where there'll be less biasing regarding the referees. Being a pandemic situation, if we get to host our fest on grounds I'll make sure that everything is well sanitized and proper measures are taken regarding the new norms that'll be coming up. We may or may not guarantee about the physical conditioning of the event, but we'll make sure that we're up for online activities of the event and cherish this platform for interaction with other students.

Sports Secretary

- **How has the pandemic changed your plans for conducting events?**

The pandemic has affected everyone in every way it can. We can't sit back thinking what all we have lost due to this but rather focus on coming up with some strong beliefs and new approaches towards events.

Conducting sports online is a difficult task but it will give a great exposure for the upcoming students to see how events can be conducted online also and with proper guidance.

- **We know it hasn't been long enough in your tenure, but what would be your advice to all the future Council aspirants?**

Tenure doesn't depend on how long you've served the particular post, instead it depends on what work you've done in the given time. We remember the good stuff about the person on the time he/she has served. So adding on to this, I'll say that it is a great opportunity to be in this position of responsibility and don't miss out on opportunities like these as they never come twice. Enjoy your post thoroughly whether you've got a year or maybe less than that, keep exploring new stuff and never let the authority get to your head.

Assistant Sports Secretary



SEAN
PEREIRA

- **How were you motivated to apply for the post of Asst. Sports Secretary?**

Being an all-rounder and an amazing leader throughout my high school years and junior college has helped me grow a lot. I was also the Head of my school council for two consecutive years and the captain of my football team. My love for sports and music helped me develop amazing leadership skills. This has motivated me to be the asst. SS of our college and I'm also looking forward to being the GS, SS or the CS next year, so that I can give back my college for all that it has done to help me grow.

- **What new ideas do you bring to the table as the ASS?**

As the Asst. SS this year, I'm looking forward to conducting some really good sports events for our students. Apart from that my main motive this year is to get everyone together and unite the entire college through sports. Also being a professional in various sports like football, golf, badminton etc I would love to train students in it and to pass on my skills and help our college win tournaments. Also when it comes to Sparx I will make sure that every game is conducted following a proper schedule and point table and make sure that the rules are followed and no partiality is done towards any student.

Assistant Sports Secretary

- **How has the pandemic changed your plans for conducting events?**

The pandemic has honestly been a major setback for any event to be conducted in college. Especially when it comes to sports events, one always needs to have a ground and proper sports equipment for it to be conducted. Conducting online sports can be an option to get our students together and enjoy. However it won't be much fun as normal sports due to less physical interaction and limited number of online games. As an Asst.SS I'm trying my best to get permission to conduct online games for our students such as an Among Us tournament, carrom and chess tournaments etc. Also once college starts I'll put in most of my time to conduct at least one phase of Sparx and also help in giving our students a better gymkhana

- **We know it hasn't been long enough in your tenure, but what would be your advice to all the future Council aspirants?**

What I have learnt in all these years of my life is that whatever you do, you should always give your best effort and put your heart into it. If you're planning to get into the Council just for the title and fame, believe me, it's not worth it. But, if you're truly determined to bring change and embrace it for the betterment of the college, then my friend, you're definitely on the right path. Also, as a leader you should always be humble, kind and hardworking. That's all I have to say for now. Also if any of you need my help and advice always feel free to approach your Asst.SS anytime. Your friend and brother, Sean Pereira. All the best.



TECHNICAL SECTION

ARTIFICIAL INTELLIGENCE HERE TO TAKE AWAY JOBS?

Artificial Intelligence can be defined as a technology which makes machines act more intelligently. It also can be outlined as guiding the machines to learn, to behave and think as a human would by analysing data and surroundings. Artificial Intelligence is the art of solving problems in an intelligent way using various algorithms. Intelligent way could be seen as something which imitates human intelligence. It is a technology so advanced that it helps us do things we never could have done before, like a chess computer beating the world chess champion, self-driving cars, predicting future results, and much more. One should have a good foundation in linear algebra, calculus and statistics in order to pursue the field of AI, along with these having a good knowledge of Python is also crucial.

People usually dread AI deeming that AI is going to replace human work and is here to take away jobs, which is not entirely accurate. Artificial Intelligence is not here to replace humans but here to augment human capabilities and to accomplish tasks that neither humans nor machines can do on their own. The World Economic Forum predicts that 75 million job positions will vanish due to automation by 2022, however they go on to predict that 58 million more jobs than those lost will be forged during the same period due to automation. AI can replace the repetitive, monotonous jobs and hence humans can spend that time working on higher-order skills like problem solving and decision making. Artificial Intelligence isn't meant to replace us because on a fundamental level it is a completely different thing than a human brain. Advanced Super computers have up to 10 million cores, while the brain features nearly 100 billion neurons.

Over the years Artificial Intelligence has proven to be useful in different domains, impacting the lives of our people and society in meaningful ways. Let's thus anticipate a future in which AI plays a pivotal role in unchaining us from the dull, the mundane, the dirty, the dangerous jobs and hopefully providing us with more time to spend with our families and potentially better health.



- JARVIS TRINIDADE
(TE IT)

EDGE COMPUTING

What is Edge Computing?

The edge was accustomed to being an environment where these computers were attached so that they could provide data to a centrally based data centre or cloud and collect guidance and download software updates.

What were the computations from before?

It can be summed up as:

Early computing: Clustered programmes are run by a single independent computer.

Personal computing: Clustered programmes run locally (known as PCs).

Cloud computing: Data centres that operate clustered systems worldwide.

How does it work?

Edge devices may capture, sort and perform preliminary data analysis, then send it to where it needs to go: centralised apps or some kind of long-term storage, either on-prem (everything is hosted in-house) or in the cloud again. As this traffic might not be time-sensitive, it is possible to use slower, less costly connexions, probably over the internet. And the amount of traffic that needs to be sent at all can be decreased because the data is presorted.

Does it owe its predecessors any advantages?

Thus, for applications that need it, the benefit of edge computing is quicker response time and delays the growth of costly long-haul connexions to processing and storage centres.

What about drawbacks?

Security could be the downside. It is important to provide protection for the IoT devices that connect to the edge devices and for the edge devices themselves, with information being collected and analysed at the edge. They contain useful information, but they are also elements of the network that could compromise other devices containing stores of valuable assets if exploited.

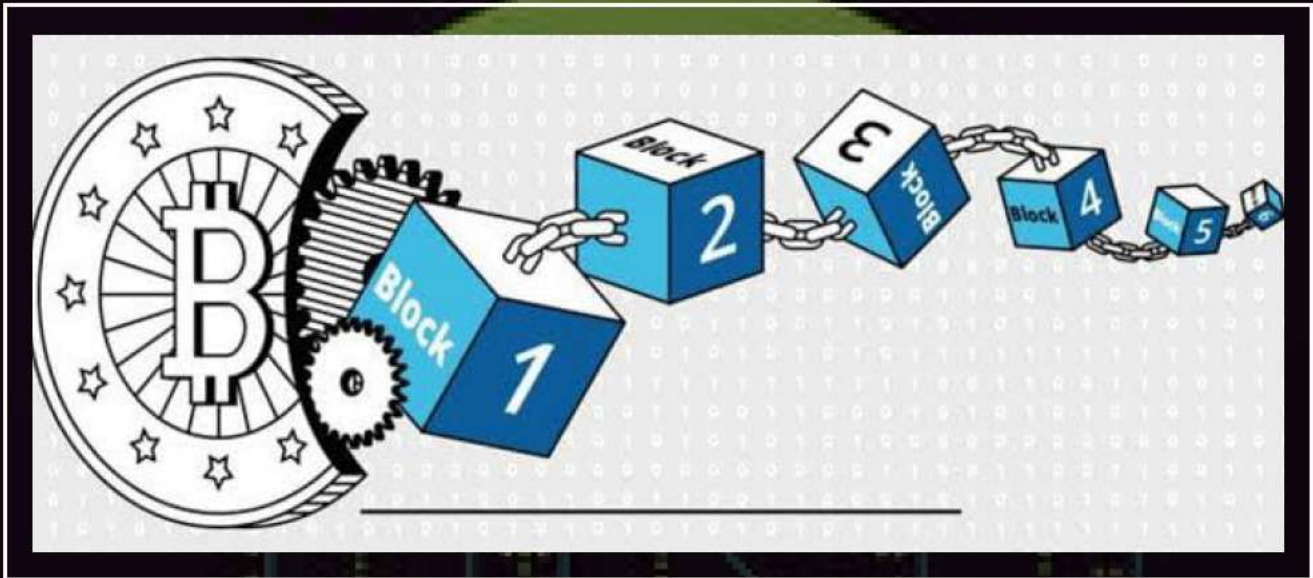
A self-driving vehicle is the perfect instance for explaining edge computing. Machine learning in the cloud takes charge of educating the whole fleet, while edge computing dictates what step the car wants to take right now at an individual vehicle level. It routinely provides alerts, suggesting that it is governed by Tesla. You can't reprogram it, though, to neglect pedestrians and turn it into a low-key killer.

The industry has already come a long way to meeting edge computing needs, and it is becoming mainstream.



**- JOSHUA SEQUEIRA
(TE COMPS)**

BLOCKCHAIN IN INSURANCE



We all live in a world with various types of properties through which people invest their money in the market. Insurance is a means of protection from financial loss. The insuree gets a compensation against the losses, due to the occurrence of an event, from an insurance company who collect small amounts of money from its clients and funds that money together to pay for damages. The loss may not be financial but it can be brought down to financial terms.

The trust and accountability in auto-insurance in past few years has been damaged to an irreversible extent. People make fraud claims or are invoiced of services that were never provided to them. Also the presence of middle man adds up to the cost policyholder has to pay. Auto-insurance industry is a fraud prone zone and has nearly lost \$13.3 billion in 2011 alone because of frauds.

Introducing blockchain, Blockchain is a chain of blocks which contains information. The information is broken down and stored in different block which are arranged in chronological order. Each block contains data or information, hash and hash of previous block. Each new block is connected with the previous block with the help of the hash value of previous block. If the information inside a block changes then the hash value of the block will also change. This will make the further blocks invalid.

Blockchain in Insurance(BI) provides a secure way to make the system accountable and trustable from the point of view of customer. It also provides digital smart contracts to capture obligations and terms binding the insuree and insurer along with improving accuracy of pricing through quantification of risk and disintermediation of third-party intermediaries.

Using BI, policyholders will be provided verifiable information which is being encrypted and also simplified claim registration and assessment which promotes fraud-less transaction with transparency.

BI promotes automation of claiming process and better onboarding of policyholders while keeping their data free from third party access. BI uses blockchain technology which can remove 15%-25% of expenses incurred during the insurance process due to fraud thus saving around \$5-10billion.

BI promotes automation of claiming process and better onboarding of policyholders while keeping their data free from third party access. BI uses blockchain technology which can remove 15%-25% of expenses incurred during the insurance process due to fraud thus saving around \$5-10billion.

**- PROF. SUVARNA ARANJO
& POOJA SHETTY
(IT DEPT)**



WHAT IS THE BUG BOUNTY PROGRAM AND HOW TO START WITH IT?

(Sources: medium.com, thehackernews.com)

The COVID-19 outbreak is turning out to be not only a health, social, and economic hazard but also a cybersecurity crisis. With increased remote working for better business continuity, employees are using numerous Internet tools. As businesses and people have started relying more on technology and are busy fighting the pandemic, the attackers now have plenty of options to target them more than ever. Sanjay Dhotre, the Union Minister of State for Electronics & Information Technology, said that India has seen over 350,000 cyberattacks in the second quarter, triple the number of recorded events in the first quarter of 2020. He also highlighted that there were 700,000 cybersecurity incidents until August 2020.

This brings us to the point what is **Bug Bounty Program**

Bug bounty hunting is one of the most sought career trends of these days. The scope of jobs in the field of Cyber Security has not only been restricted to operations like penetration testing or vulnerability assessment. Independent professionals like bug bounty hunters are leveraging the high amount of bounties and satisfying career with ceaseless growth.

You don't need to confuse bug bounty with penetration testing as both are not the same but very different. To become a successful bug bounty, you are required to be patient and persistent while finding some significant bugs. Bug Bounty program you can hack on are Hackerone, Bugcrowd, Intigriti and many more.....

Here are some of the recent Bugs found

- A 27-year-old Indian security researcher Bhavuk Jain has grabbed \$100,000 (over ₹75.5 lakh) from Apple.
 - Five Hacker Found 55 Bugs in Apple Products in 3 months and made \$51,500.
- And many more....

So now we will see steps to start learning

Step 1) Start reading

There are some go-to books that you can buy to help you learn the basics and essentials of penetration testing and bug hunting. Since bug bounties often include website targets, we'll focus on getting you started with Web Hacking.

• The Web Application Hacker's Handbook

• OWASP Testing Guide v4

Step 2) Practice what you're learning!

While you're learning it's important to make sure that you're also understanding and retaining what you learn.

• Tryhackme

• Hack the Box

Step 3) Read tech write-ups and POCs (Proof of Concepts) from other hackers and watch tutorials on YouTube.

• Infosec Medium is a great place to read articles which gives you a good understanding of concepts.

• There are many people out there who post some of the great content not only on YouTube but also on other social media platform you can connect and learn from them.

Step 4) Start learning about bug bounties

• How to approach a target

• How to write a Great Vulnerability Report

• How to write Proof of Concept

• How to report a Bug

• Bug Bounty Disclosure Policy

Step 5) Get hacking

• It's time to start hacking! When you're new and getting started, it's probably best not to try hacking the most popular bug bounties out there like Facebook and Google.

• Go for the Kudos(Point only program).

Step 6) Always be learning

• Hacking is a lifelong journey of learning. This is what makes this field so exciting!

Before ending this Article a quick overview of one of the old and famous vulnerability i.e. **SQL Injection**

SQL injection is a web security vulnerability that allows an attacker to alter the SQL queries made to the database. This can be used to retrieve some sensitive information, like database structure, tables, columns, and their underlying data.

For example, suppose an application uses the following query to fetch someone's login details:

```
SELECT USERNAME,PASSWORD from USERS where  
USERNAME='<username>' AND PASSWORD='<password>';
```

Here, the username and password is the input provided by the user. Suppose an attacker gives the input as ' OR '1'=1' in both fields. Therefore, the SQL query will look like this:

```
SELECT USERNAME,PASSWORD from USERS where USERNAME=" OR  
'1'=1' AND PASSWORD=" OR '1'=1';
```

This query results in a true statement, and thus, the user gets logged in. This example depicts the most basic type of SQL injection. SQL injection can be used anywhere to fetch any sensitive information from the database.

Note: This was the most basic example and meant only for understanding purposes. You'll mostly not find any such cases in the real world.

Types of SQL injection

- 1.Error-based
- 2.Union-based
- 3.Blind-Injection
- 4.Content-based
- 5.Time-based
- 6.Out-of-band injection(uncommon)



- SACHIN MAURYA
(TE IT)

SPEED OF PROGRAMMING LANGUAGES

Introduction:

The title might be a bit miss-guiding, since we have not even defined what SPEED we are talking about. So, let's decide what speed means here.

Speed of programming language is the how fast a code executes, where time taken is the execution time of a particular program in any given language.

So we assume the following:

- 1) Hardware used is the same.
- 2) The same program is implemented (in a sense that the program has the same functionality and same time complexity) for all the programming languages considered.

We shall be considering some programming languages as examples amidst this discussion.

Speed affecting factors:

- 1) **The language closely representing the native computer language, executes faster as it requires less effort on the part of computer to decode it.**

This is very easy to understand considering C language is closer to assembly language in terms of syntax as compared to other popular languages.

- 2) **Compiled languages are faster than Interpreted Languages.**

Java and python are interpreted languages which use interpreter and generate intermediate bytecode. Whereas C and C++ use compiler which directly generates machine code, which makes compilers faster than interpreters. But then why are some interpreted languages faster than other (or even the same can be asked for other compiled languages)? This will be cleared in the following 2 points.

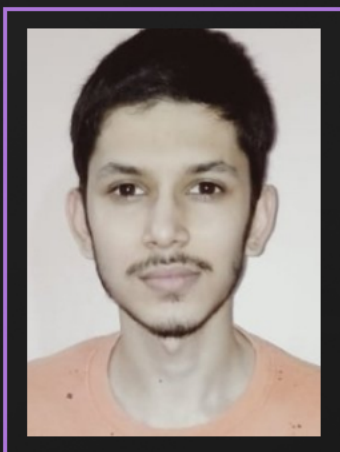
3) Extra features reduce the speed of execution.

C++ is a superset of C, which means it has more features, implying that compiler has more instructions to decode. That is why most programmers agree that C is faster than C++. However, since both languages are compiled, the difference is not even noticed. Also efficiently written C++ code works as fast as C code.

4) Dynamical typed languages are slower than statically typed languages.

This makes the reason clear for difference in speed between of Python and Java . Python is dynamically typed and Java is statically typed, because in python data type is decided by the interpreter, unless specified explicitly.

CONCLUSION: We have discussed the causes for speed reduction for programming languages. The main takeaway is that speed reduction is a result of adding extra useful features to programming language for programmer's convenience. Thus, all programming languages maintain certain balance between its speed and features (as per convenience), which vary from one programming language to another.

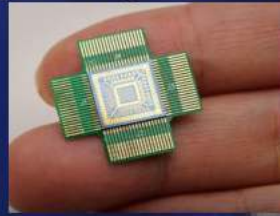


**KEVIN FERNANDES
(TE COMPS)**

CARBON NANOTUBES – A REVAMP TO SPACE CONSTRAINTS

It is 2020 and nothing vague is surprising anymore. Gone are the days of carrying bulky cabinets for setting up the personal computers and clearing out space to accommodate them.

Electronics is approaching a major paradigm shift particularly in the VLSI sector.



But what actually happened?

Recently, in a huge milestone, engineers have successfully built a working computer chip out of carbon nanotubes.

How did this happen?

In this new study, researchers used rolled up sheets of carbon, each a single atom thick, to form 14,000 carbon nanotubes. This comes after silicon transistors (which are the building blocks of a processor), are no longer yielding energy efficient benefits, spurring research in the nanotechnologies field.

This is a huge leap as silicon transistors (the devices that carry the 1s and 0s of computers) start to bump up against the limits of physics in terms of size and density, the evidence so far points to carbon nanotubes being a faster and more energy efficient option.

Advantages of Carbon Nanotubes (CNTs)

- 1. Extremely small and lightweight making excellent replacement for metallic wires.***
- 2. Resources required to produce them are plentiful and many can be made with only a small amount of material.***
- 3. Are resistant to temperature changes meaning it functions almost just as well as in extreme cold as they do in extreme heat.***

What does this mean for you and me?

In simple words, there are limits to silicon. If we want to continue having gains in computing, carbon nanotubes represent one of the most promising ways to overcome those limits. This new breakthrough completely reinvents the way we build computer chips with carbon nanotubes.

For us, in our day to day lives, we could have a much smaller and efficient working computer almost as the size of our keychain, which makes it a viable solution to the hassle of carrying those laptop bags around.

Just imagine yourself carrying your CPU cabinet in your pocket around, and just plug it into the monitor which you want to connect it to and voila that's it!

Due to COVID-19, we all are rebooting our lives, so why not push towards improvisation and reboot the technology that gives us so much as our daily bread? What is your take on this topic

(Sources: sciencealert.com, academia.edu, scribd.com)



- ANURAG YADAV
(SE IT)

CAUTION : E-MAIL SPAM AHEAD!!

When you say spam what comes to your mind first the abundant ayurvedic and natural remedies forwarded by your relatives via whatsapp or the genie messages which assure you to grant your wish just by forwarding the message to 10 more people .Also not to ignore the daily spam received via emails advertising their products and schemes.

Why do spammers spam?

Most of the spam is benign marketing spam just like distributing flyers on subway but on the other hand you have the serious threat of cybercriminals attempting to break into your online accounts, steal your data, steal your money and spread malware.

Mobile Spam

Due to the widespread and high availability of mobile phones mobile spam is something which everyone experiences on daily basis like receiving text messages from unknown senders sometimes containing links to you never know what, or the phone calls from buying a credit cards to various schemes and policies.

Payment Spam

In these you are often requested to pay some advance amount as a fee for lets say a specific course or internship/job or in order to receive a larger sum of money later. Once you wire the cash to the cybercriminal, the sender disappears with your money.

Phishing email

These are the most dangerous as they tend to trick you into giving up a valuable information by replicating the original sender and mimicking the original pages. These mails can be sent as for example a request to reset your password or verify your account, verification of purchases you never made, a request for updated billing information.

How to know if it's a spam or not?

Sometimes you are not sure if the email is a spam then open the mail in Settings choose Show Original->check the status of SPF(Sender Policy Framework), DKIM(Domain Keys Identified Mail), DMARC(Domain-based Message Authentication, Reporting and Conformance)-> Value of all these three protocols should be PASS. To put it in simple words if they don't show the value as Pass you have just been spammed by an unknown user!

What can we do ?

Don't Reply !

In spite of being aware of the fact that it's a spam mail or message people end up replying to the spam out of curiosity or to unsubscribe or to learn more about the products ,etc. Always turn your spam filter on and in case any mail makes it's way into your inbox add it to spam.

Spot the Phish!

The sender's address isn't correct. If it's a legitimate email the sender's address should match the domain for the company they claim to represent. For example emails from Microsoft always come from example@microsoft.com.

If the sender really knows you the mail will be addressed to you and not in general reference like 'customer' or 'friend'.

Typos or bad grammar or unusual syntax often points to a spam email. If the email is too good to be true, you are being scammed for example wining a large sum of money or getting an impossible job offer just by paying some amount of money in advance ,etc.

Authenticate !

Add additional authentication such as include secret questions or verification codes sent to your phone via text message. Keep changing your passwords and always go for alternate alphabet and number types (eg : a1b2c3) which are difficult to track down.



- ABHIRUCHI PATIL
(TE COMPS)

BLE : A BEACON OF WONDERS

Since the conception of smartphones in the early 2010's, the lives of people have been heavily influenced by these electronic leashes. Features that these leashes possess have created an opportunity for every being to empower themselves in an easier way. One of the many features is Bluetooth Low Energy which was introduced alongside Bluetooth 4.0. This technology revolutionized connectivity between smart devices by not being connected to the devices all the time. So, this sub technology of Bluetooth actually exchanges information only when required unlike its predecessors which required an all-time connection.



BLE operates in 4 different ways namely Broadcaster, Observer, Central and Peripheral. The Broadcaster mode is also called as Beacon mode. To get a good idea of the BLE Beacon's working, imagine a lighthouse pitching its light around for the ships to identify it. Now the ships know the location of the lighthouse irrespective of the lighthouse knowing the location of the ships. The job of a BLE beacon is to keep pushing out data packets or messages around and make the people aware of its existence. The beacon makes use of 3 frequencies to send these messages.



The BLE Beacon device is made up of a micro-controller and a BLE transmitter. The controller stores the info, provides power and tells the BLE transmitter when to transmit the message, while the BLE transmitter simply converts messages into signals and transmits them around. When a person walks into the area in which the messages are being sent, he/she would receive a notification of this message in their phones provided they have their Bluetooth switched ON in their smartphones.

The message received can consist of a variety of things such as coupons of stores, information of certain objects, location guide, etc. As this makes the technology more versatile and alluring to the people, the use of beacon modules has risen exponentially over the years.



Many countries, organizations and businesses have adopted BLE beacons as their go to tech for public convenience. Hongkong airport has deployed over 17,000 units for way finding services along with Germany, which has deployed over 50,000 units all over the country in 2016 alone. Long battery life, small size and low cost are few of the reasons for its mass implementation and success among the masses. In a survey conducted, more than 54% of the people preferred the use of beacon messages for shopping and way finding purposes. All of these experiences cement the place of BLE Beacons in today's market place as one of the most reliable pieces of tech to cover a greater audience, truly making it a beacon of wonders.



– VENKATESH PRABHU
(BE EXTC)

DYNAMIC CONVERSATIONAL CHATBOT USING AWS

"Dynamic Conversational CHATBOT using AWS" (Amazon Web Service) is a conversational bot that understands your requests and works for you. By using AWS, the bot is secure, scalable, and highly available. The applications of the bot in the real world are limitless. The final product of our project is a Telecommunication chatbot. The bot can add plans to the client's account, verify the user's pin and provides complimentary service of booking cars with or without a driver globally. With maximum integration capabilities to interact, it is available via the Web interface, SMS, Calls, and Speech via the Web.

Technologies used in this chatbot are Amazon LEX, AWS lambda, Amazon S3, Amazon Dynamodb, Amazon Connect, Amazon IAM, Amazon Cloudwatch and Amazon Cognito. It is integrated into third-party services Twilio to support SMS. To turn text into lifelike speech, Amazon Polly has been used. Some bot features include fast replies, multi-device support, fast database, fantastic design, security, doing tasks, data on the cloud, buy stuff, and API support.

The students involved in developing the dynamic conversational chatbot include Aadesh Gindodiya, Harshvardhan Chunawala and Naimesh Bhatt under the guidance of Professor Suvarna Aranjjo.



- PROF. SUVARNA ARANJO
(IT DEPT)

Customer Handling

Customer Service
changing the
scenario .



ENGLISH SECTION

A PARADOXIAL MYSTERY

As a li'l lad, till upgrad,
The journey was so mad.

Every Individual's a blank paper,
Glistening white, simple and sober.

Judging them as they treated you,
Is only your overview.

Your mere perception,
Is nothing but preconception.

Bitching about others is an art,
But is it okay on one's part?

As your thoughts depart,
The individual on paper is done world's apart.

Everyday's an unending mystery,
Etched daily into our life's history.

– JOSHUA SEQUEIRA
(TE COMPS)



WARMTH UNDER THE GOLDEN LIGHT

In the darkness painted across the space,
The golden sunlight drapes itself.
Perfectly the two contrasts blend,
And evoke that elusive warmth.

The steam rises from the coffee,
Sitting on the window sill,
The sky rolls in anticipation,
Of a coming thunderstorm.

My mind is still,
As though it awaits the rain,
And the sweet smell of the trees and the earth
blend together,
With the fresh coffee.

The crows are crying in their own unique
cacophony,
Which to the practiced ear sounds a beautiful
melody.

Through it the baby's laugh sounds,
Once again invoking that elusive warmth.



– ANGELICA SEBASTIAN
(SE COMPS)

WE HAVE MONEY !

We have money for
purchasing war equipment
and machines;
But we don't have money to
feed the poor, hungry kids in
our streets.

We have money for
discovering, exploring space
and the mysteries within;
But we don't have money to
help that old grandpa to get
medicine for his wife whom
he treasured,
Who is the only soul left to
care for him.

We have money for travelling
everywhere, partying all day;
But we don't have enough
money to take care of our old
parents,
For whom we are the only
reason to pray.

We have money to build
walls and cover our flaws,
(poverties);
But we don't have money to
correct them or change
them.

We have money to buy costly
foreign breeds of dogs, cats,
and other pets;
But we don't have money to
buy a pack of biscuits for our
own street dogs.

We have money to build the
"Statue of Unity";
But we hardly care about the
starvation strikes in our
country.

– **ATHISAYA SARAH JONISTA**
(SE COMPS)



LET ME **START** AGAIN

Life with ups and downs suddenly gets a bounce,
When locked up with family and work load counts.
Headed on for a restart with new tech in ace
While the olden ways are better to play safe.
Abort, retry, ignore is what we often do!
Reload, reboot, but difficult to the erase once through
Caught up in a world which does things absurd
Population pollution the three R's often unheard.
Let me start again let's be the new again
Vanishing most of pain and brokenness
Let me just start again .
From a seed to a flower
A journey full of power. With new start every day
Let all the old pain fade away.
The new start may not be good to see
Attractive enough to make me please,
But definitely with time passing by ,
We will adapt this by and by.
Starting over a new chapter of life
Doesn't mean I let go the strife.
It taught me a lot; the past
To adapt the new slowly but fast.
Starting over isn't easy

But learning goes on slow and cheesy.

The inner voice says let me start again! Fill the emptiness in me once again, make peace Break the piece and change the ice be the fierce mice. Start over with a new makeover,

Let your light shine again as old tech comes to an end; adapt, reload, And enjoy the reboot worth doing for our joy. Let me start again! And Feel the worth with every gain!



– REIAN ESTEVES
(FE)

A SEASONAL LIFE

Reborn with a yearning heart
Curious of what's outside the pot;
Masquerades galore, every shade I had bought
Summer melded faces, lessons were taught;
Full of hope and lies, couldn't connect every dot.

Shivers made me young, Sun still up
Time to make a mark, harvest the candy crop!
Now you climb to top, oh careful! Don't drop!
Winter chills under my shorts, sipping tea with a silly cap
Country music, trips & sips, new found guides without a map!

The earnest gloom drenched my boyhood to create a man
A mountain on my shoulders, no money in the van;
Showers cleared the mist, guides so anxious they all ran;
Flooded, overwhelmed, I knew spring was at hand
Oh what a tragedy ! Sold my soul for a band.

Shed my leaves to look majestic,
Grew new ones, still opportunistic
Scars made me strong, time's a great magic;
A brand new person, built brick by brick
Will I ever get to spring? Or was this all for a kick?



-VENKATESH PRABHU
(BE EXTC)

LIFE AS WE KNOW IT

While sipping hot coffee on a rainy morning I had this thought which actually changed the way I saw life. I had a moment of flashback, like those in the movies, where I was taken back to the lively mornings, bustling trains, rushing to college, and barely making it on time. Then I zoomed right back into the present, with 5 minutes left for class to start but I was calm as ever. This made me question what happened to the life I knew? Does life as we know it, even exist anymore?

The past few months have been a whirlwind of emotions, with new things happening every single day shaping us more and more into who we have become today. I believe everyone has undergone changes which have impacted who they are in this moment. The beginning of the pandemic induced lockdown was like discovering water in the driest desert. Having no time at all to suddenly have the whole day to ourselves made me happy beyond measures. From learning new things to trying out everything I wanted to, felt surreal. Slowly as time passed, I started feeling a plethora of negative emotions, from anxiety to restlessness and beyond. This is when I realized this is the only time, possibly ever, that I have so much time on my hands which made me notice the beauty of little things in life. Talking to friends, spending quality time with family, finding a new hobby or just sitting at your window sill and introspecting can bring you the peace of mind you are seeking. Here, I found the answer to my question, no such thing as 'life as we know it' exists. Life is synonymous to change. Everything is constantly changing and the only constant is change. Nothing is permanent in the world. The only thing which keeps us going is hope, so here we are stringing each day with a hope for a better future. The next time we meet, we will be better versions of ourselves with an even greater sense of individuality.

Till then, stay safe and take care!

– SUSHREE NADIMINTY
(SE COMPS)



HEY, I'M NEW

Hey I'm New,
And 'Friendly' here seem very few.

I Glance and see So Many faces,
Hoping among them I Find Friendly Traces.

Caught up in Daily Hustle,
No one Stops to see the Autumn Leaves Rustle.

None Care to take in the Bliss of Cool Breeze,
Forgetting it's a miracle for a city with scarce trees.

Where Absence of an Mp3 is an absolute tragic,
The Birds chirp fill my ears with Enchanting Magic.

Ignorance Serves More than an Utter Bliss,
For a Story I find in Nature; Instead of One on a Screen Starring Chris.

Fills me with Extreme Sadness and Pain,
Realising Technology and Competition Make Us take so Much in Vain.

Maybe We've Got a whole Lockdown to Finally Catch Up with all of Technology's Whims,

So Later We can spare Nature and Each other More than Just a Hasty Glimpse.

But Hey, I'm Still New!
Hoping after all this Ends; We'll See More than just a Friendly Few.



- LYSANDRA D'SOUZA
(SE COMPS)

THE GOOD IN BAD

Hey, counting days right? Or, have you lost track just like most of us?

We always wonder if it is living or surviving and with all the uncertainties in life, even this question remains unanswered. Hobbies which were meant to be something that we would enjoy doing is now just another way to pass-time. One of these hobbies is fixing this puzzle of life.

And just to end on a brighter note The GOOD thing about BAD days is, they END.



– JAYESH JAIN
(BE IT 2020)

THE **NEW** NORMAL

Our world is seeing a malicious nightmare,
Our peaceful world is caught unaware.
Increasing cases and the worst situation,
All are going through bad conditions.

Some are locked inside the door,
Some are searching for shelter like never before.
Some are having hectic work schedules in their jobs,
Some are searching sources for money; they sob.

Some have a lot of friends to talk to on the phone,
Some have no social life; depressed they live alone.
Some are laughing and breathing a sigh of relief,
Some lost their loved ones and are mourning in grief.

No one knows when will this end and what to do?
Everyone is trying their best to struggle through.
How can we survive and clean this mess?
Need to bring colors in this life becoming more colorless.



– SAJJAD RIZVI
(BE IT 2020)

FINDING HAPPINESS

People around me say that 2020 has been an emotional roller coaster, or that it was a movie with an amazing first half continued with a never-ending intermission. The sudden change in our lifestyles right from catching trains at 7 a.m. to sitting on our couch now in front of our laptop for hours can be overwhelming for everyone. During these arduous times, it is difficult to keep ourselves happy sometimes and to surround ourselves with positivity.

However, it is important to find the little things in everyday life that make us happy. Maybe this is the perfect time to read that book in the corner of our shelf for which we did not have time, or learn to cook something we always wanted to and clean the mess we made afterwards, or start learning that one course which has been in the back of our mind since months. You will be surprised once you know that there are endless possibilities to our creativity and the only barrier to it are the limitations in our mind.

One of the important keys to be happy for me is by acknowledging the unhappy moments and making them an important learning experience. Once we start finding the best out of the worst situations, there is almost nothing that can bring our resolution down.

This seems the perfect time to spend time with your family, reconnect with your old friends or even make new friends because once the lockdown is resolved the whirlwind of our college life will give us no time to go back and use the time we had wisely.

The cliché- "Laughter is the best medicine" is going to help us sail through these tough times towards the brink of good mental health.

Stay safe and happy!

- KRITIKA SINGH
(SE EXTC)



OCEAN OF LIFE

Life has its own ways,
Have I heard a zillion times.

I stand still up, in front of the vast ocean of life then.
The waves of sadness go back and forth time and again.

They also snatch away a little part of the ground from
beneath my feet.

Shaking me up! Trembling my feet!
Questioning my worth! Pushing me deep!

Oh! They leave the pearls and corals,
They ought to leave, on my feet.

Life has its own ways,
Have I heard a zillion times.

The ground,
The ground of misconceptions on which I relied!

The pearls and corals,
The pearls of Life Lessons to lead!
Life has its own ways,
Have I heard a zillion times.

How beautiful! How transforming!
I now realize.

- SUDHA DAMEKAR
(TE EXTC)



RE-DISCOVERING ONE'S LIFE

Life is a beautiful journey amongst the mystical huge pillar of failures, success and truth which can never be defeated. Along this ravishing journey we meet the never-ending hustle and bustle of life, wandering beneath the melancholic roads one has never taken before, the scars imprinted on your mind, every tear trickling down your cheek taught you something better than mere experience, a lesson to cherish for life. Taking a beautiful moment out to just appreciate yourself and reflect upon the mirror of your soul, right beneath the puffy cotton clouds to the thick icy blanket of snow, greenish yellow birds chirping the melodious tales of their lives, all the way to tickle our ears with their harmony. Little green grass dancing along the rhythm of the wind and the sand that kisses your skin, where the swift yet strong waves crash against the rocky shore. Appreciating the mother of all, the one who embraces our soul. Quality time in the warmth of her arms that would never abandon you even when you are alone, broken or in your eleventh hour. To appreciate the precious doings of mother nature. These are meaningful experiences given to us to rediscover our strength, to be bold and learn to accept failures and still strive towards betterment. When you'd know to take a moment and pause, a little time to reboot your life.

When the pot of life overflows with concern and troubles, even when you are swept off your feet by your own fears, it might be one of the coldest winters you have encountered, hopes lost like those shattered pieces of your own dreams, but stay strong just take a moment out and close your eyes here is where you would know it's time to reboot life. When you know, you would have to blend along and embrace this little journey with the tiny ripples of happiness. As it is rightly said, "One does not achieve peace of mind until you listen to your heart". A loving heart would never fail you, every thumping heartbeat of yours would always be a reminder of your goals. Dark clouds gather, the silver lining dims, the turquoise waters darken and the anger turns to rage is when you in the darkest speck of the forest await a ravenous storm, but slowly it fades, diving into its deepest sleep, once again the world is kissed by the golden rays, the enchanting nature peeks out mesmerizingly. Pain is exactly the same, leaving your mind numb and broken, eyes filled with tears, quivering body, but time heals everything. This would fade away like another nightmare, all you need to do is take out some time and here is where you would know the need to reboot life.

Here all your pain and hard work would pay you with your fruits of labour, every experience being a stepping stone leading along your path to success and along this unpredictable path, steal some minute moments and you'd know the time where you just need them to appreciate your life, a little moment to reboot your life.



- DIVYA KULKARNI
(SE COMPS)

हिंदी विभाग

जिंदगी

जिंदगी में मेरे
कुछ ऐसे मोड़ आए।
अपनों में छुपे गैर
गैरो में अपने नजर आए।
खुली किताब सी है
जिंदगी बेशक कहलाए।
रोज खुल थे यहां
गहरे राज नए।
दिल ने वैसे जगह तो काफी दी
पर पसंद लोगों की जो
हमेशा दिमाग में रहना चाहे।



- खुशबू चौधरी
(SE IT)

ज़िंदगी जीने का नाम है !

ज़िंदगी जीने का नाम है !

उसमे रंग भरना अपना काम है,
अगर कभी रंग ना भर पाओ ज़िंदगी में,
तो एक बात याद रखना यारों
ज़िंदगी जीने का नाम है।

ज़िंदगी जीने का नाम है !

हर कर्म यहा बस खुदके ही नाम है,
किसी वजह से अपना नाम मिट्टी में मिले,
तो कभी खुदसे हारना मत यारों
ज़िंदगी जीने का नाम है।

ज़िंदगी जीने का नाम है !

जीना यहां जैसे एक रंगीन शाम है,
अगर कभी ये शाम ढल जाए,
तो नाराज़ मत होना यारों
ज़िंदगी जीने का नाम है।

ज़िंदगी जीने का नाम है !

परिश्रम करना अपना काम है,
कभी परेशान होकर थक जाओ,
तो बस एक बात याद रखना यारों
ज़िंदगी जीने का नाम है।



-लेखा लढे

(SE IT)

दशहरा को हमने रावन को जला दिया

मंदिर बनना चाहिए उस रावन का,
जिसने नारी का दामन ना छुआ,
क्योंकि आज डर झिझक रहा आंखों में नारी के,
और तुम कहते हो,
दशहरा को हमने रावन को जला दिया...

राम तो तुम भी कभी नहीं थे,
छोटे कपड़ों पर तुमने भी कीचड़ उछाला था,
आज अब बारी तुम्हारी सोच की आयी,
और तुम कहते हो,
दशहरा को हमने रावन को जला दिया...

रास्ते पे दानव खुले आम घूमता रहा,
सीता को उसने यू कुचला,
8-साल बाद दहन बड़ी मुश्किल से हुआ,
और तुम कहते हो,
दशहरा को हमने रावन को जला दिया...

दशहरा को हमने रावन को जला दिया

नारी-सम्मान ने रामायण, महाभारत करवाया,
एक जान का कर्ज यहां मोमबत्ती ने चुकाया,
मर्यादा में रहना सिर्फ लड़की को ही सिखाया,
और तुम कहते हो,
दशहरा को हमने रावन को जला दिया...

हर दिन यहां दरिंदगी की दस्तक दे रहा,
पुरानी स्याही सूखने से पहले अखबार नई खबर लाया,
न्याय की देवी ने भी डर से सिर झुकाया,
और तुम कहते हो,
दशहरा को हमने रावन को जला दिया...



- खुशबू चौधरी
(SE IT)

मुंबई में मैं।

शहर में रहता था मैं,
तुमने इसे मेरा घर बना दिया।
सुबह कॉलेज जाने उठता था मैं,
तुमने मुझे उगता सूरज देखना सिखा दिया।

रास्ते से सिर्फ सफर करता था मैं,
तुमने मुझे हवाएं महसूस करना सिखा दिया।
होटल का खाना हॉस्टल लाकर खाया करता था मैं,
तुमने मुझे इन्स्टा स्टोरी डालकर खाना सिखा दिया।

इस शहर को भीड़ समझता था मैं,
तुमने मुझे इसका हिस्सा बना दिया।
यहां के मौसम से बीमार होता था मैं,
तुमने मुझे इस मौसम से इश्क करना सिखा दिया।

मुंबई में मैं।

स्ट्रीट फूड, फैशन स्ट्रीट बस एक नजर देखा था मैंने,
तुमने मुझे हर विक एंड यहां जाना सिखा दिया।
मरीन ड्राइव कभी नहीं जाता था मैं,
तुमने उसे मेरा फेवरेट प्लेस बना दिया।

पढ़ाई से ज्यादा शहर से नफ़रत करता था मैं,
तुमने इस नफ़रत को मोहब्बत बना दिया।
अब तक एक मुसाफिर सा भटक रहा था मैं,
तुमने इस शहर को मेरा घर बना दिया।

- गणेश बख्शे
(SE EXTC)



मोहब्बत सी हो गई

तसवीर निहारकर जो आँखों में देखा,
एक चाहत सी हो गई।

हो गई एक कहानी उनसे
उनके लिये इक इबादत सी हो गई,
वो गहराइयाँ जो बढ़ती चली गई।

जो दिन भर उनकी बातें लिए फ़िरते रहे,
और शाम तक उनकी आदत सी हो गई।

हो गया एक फ़साना उनसे
की कर दूँ इकरार कभी,
और दिल में एक आहट सी हो गई।

होते होते इतना कुछ हो गया
की उलझे रहे जुल्फों में उनकी रात भर,
और सुबह उठे तो उनसे मोहब्बत सी हो गई।

- शिवम दुबे
(TE IT)





मराठी विभाग

विश्वास ✨

बोलावयास असे सोपा हा शब्द!
पण वसे शक्ती या शब्दातं ॥

शब्दास सांभाळल्या, मिळे आनंद!
पण तोडल्यास, वाटी मिळे दुःख ॥

दिल्यास यास कोणास, देई त्यास शक्ती!
पण घ्यावयास यास, देई त्यास निराशा ॥

कमावयासी यास खुप क्षण घ्यावयास लागे!
पण गमावयासी यास, एखादं क्षण ही पुरेसा असे ॥

विश्वास ✨

शब्दाची किमया न्यारीचं असे हृदयात!
जी रोज देते जगावयासी नवीन शक्ती ॥
शब्दाची मूल्यता न्यारीचं असे जीवनात!
जी नसल्यास, शोधे मी जगण्याची आशा ॥

म्हणूनचं नेहमी वाटते मजसी....
जीवन कोणाचेही, कुठेही असो,
पण जाऊ नये तडा या शब्दासी ॥

~ अदिती राजेंद्र पाठारे

TE-IT



रात्र

ती हसते, ती फुलते, पण त्यामागचं कारण
मात्र गुलदस्त्यात ठेवते ।
प्रेमाच्या थंडीत आठवण तेवढी गोठत जाते....
ती हो म्हणेल की नाही ?
ह्यातच अर्धी रात्र निघून जाते ॥

कशी असेल ती ? कशी नसेल ती ?
ह्याचीच चिंता मनाला असते.... ।
तिच्या आठवणीत आलेले अश्रू....
आपली उशी मात्र सोसत जाते ।
ती हो म्हणेल की नाही ?
ह्यातच अर्धी रात्र निघून जाते ॥

रात्र

मन आपलं, पण विचार तिचा ।
क्षण आपले, पण सहवास तिचा ।
अशी परिस्थिती होऊन जाते....
ती हो म्हणेल की नाही ?
ह्यातच अर्धी रात्र निघून जाते ॥

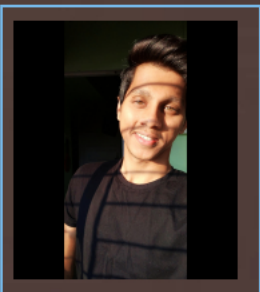
स्वतः विदूषक बनून, तिला कसं हसवू ?
याची उत्कंठा असते....
तिला काय वाटेल, तिला काय आवडते ?
ह्याच्याच विचारात मन विचलित होते....
आणि याही विचारांत....

माझी उरलेली रात्र ही निघून जाते ॥

- रोहन विचारे

(BE EXTC)

Batch 2020



लोक काय म्हणतील...?

बघवत नाही आनंद तुझा,
मग कुठेतरी उणीव काढतील ।
दुःखात समोर सांत्वना देऊन
चार चौघात तुझ्यावर हसतील ॥
दडपण स्वतःवर ही, चूक तुझी
की लोक काय म्हणतील...?

भावनांचा तुझ्या लिलाव करून
अश्रूंची ही किंमत मोजली ।
क्षणाक्षणाला बदलून रंग
सरड्यालाही हे लाजवतील ॥
मग मूर्ख तू अन् विचार तुझे
की लोक काय म्हणतील...?

इच्छा, आकांक्षांची जर केलीस होळी,
तर हेच त्यात तेल ओततील ।
कार्य तुझे तू करत रहा,
गोडवे गाण्यास हे अदृश्य राहतील ॥
मान्य असूनही सर्वकाही, पुन्हा तेच
की लोक काय म्हणतील...?

लोक काय म्हणतील...?

संकट समोर असेल तेव्हा
तुला प्रेरणा आधी देतील ।
यशस्वी तू होतोय दिसतांना
पाय हळूच खेचून घेतील ॥
कदर स्वतःपेक्षा जास्त हीच
की लोक काय म्हणतील...?

दुर्लक्ष हा मार्ग सोपा,
कालांतराने ते विसरून जातील ।
अरे मार फाट्यावर लोकांना मग,
तरचं स्वप्ने सत्यात उतरतील ॥
शहाणपण आहे तरी म्हणतोस
की लोक काय म्हणतील...?

वेळ, परिस्थितीची ठेव जाणीव,
चार लोक मग बघत राहतील ।
नावलौकिकाचा डंका वाजव,
आपोआप बोटे तोंडात जातील ।
काळ्या दगडावरची जणू रेघ ही
पुसशील तर लोक ओरडतील ।
आत्मविश्वासाचे शस्त्र वापरून
नष्टच कर दगड तो, मग बघू
लोक काय म्हणतील...?

~ खुशबू चौधरी
(SE IT)



आधी स्वतःशी करूया मैत्री!

मैत्री ह्या नात्याचे अनेक उत्सव आपल्याला इंस्टाग्राम, फेसबुक, व्हॉट्सएप अश्या बऱ्याच सामाजिक माध्यमांवर (सोसिअल मिडीया अॅप्सवर) दर वर्षी ऐकायला, पाहायला आणि वाचायला मिळतात. मैत्री ही अशी भावना आहे, जी प्रत्येक व्यक्तीच्या जीवनातील सर्वात महत्त्वाची गोष्ट ठरते, कारण आपण आपले लक्ष, वेळ आणि ऊर्जा त्या मैत्रीच्या नात्यावर कळत-नकळत सतत केंद्रित करत असतो. तसं मैत्री ही लोकांमध्येच होत असते असे नाही, तर ती आपल्या निसर्गाशी, प्राण्यांशी, एखाद्या जागेशी, इतकंच काय तर एखादं पुस्तक किंवा एखाद्या खेळाशी सुद्धा होऊ शकते.

आपल्या सहवासात असणाऱ्या व्यक्ती, म्हणजेच आपले कुटुंब, आपले मित्र आणि जवळचे लोक, आपले जीवन परिभाषित करत असतात. जसे जसे तंत्रज्ञानाचे क्षेत्र वाढत चालले आहे, तसे तसे मैत्री ह्या नात्याची भूमिका ही बदलत चालली आहे. काही वर्षांपूर्वी, लोकं आपल्या मित्र-मैत्रिणींना, तसेच आपल्या नातेवाईकांना भेट देण्यास त्यांच्या घरी-दारी जायचे, पण आजकाल आपण एकमेकांना भेटायला गेलो असलो तरी आपल्या सवयीनुसार आपण आपल्या फोनला चिटकून बसलेलो असतो. ह्या वेगवान जीवनामध्ये, आपण आपला संपूर्ण वेळ ह्या आभासी दुनियेत घालवत असतो.

आधी स्वतःशी करूया मैत्री!

आपल्यापैकी बऱ्याच जणांसाठी "आपण कोण आहोत?" आणि "आपण काय करावे?" याचा आपल्या आभासी दुनियेतल्या मैत्रीमुळे खोलवर प्रभाव पडलेला असतो. अर्थातच, बऱ्याच प्रसंगात "आपले वास्तव काय आहे?" हे विसरून आपण ऑनलाईन सामाजिक माध्यमांच्या आकर्षक काल्पनिक दुनियेत गुंतून गेलो असतो. ह्याबरोबरच, आपल्यापैकी बहुतेक जण इतर लोक "आपल्याबद्दल काय विचार करतात?" याची काळजी घेत असतात, तरीही आपण आपल्याबद्दल लोकांची मते योग्य दृष्टिकोनात ठेवायला शिकणे महत्त्वाचे आहे. आपण आपला वेळ कुठे आणि कश्यात घालवत आहोत, याचे भान आपल्याला असायला हवे. याचा अर्थ असा आहे की जे आपले खरे मित्र आहेत त्यांना आपले भले व्हावे असे वाटणं साहजिक आहे, पण बऱ्याच वेळा असे होत नसते, कारण आपला आपल्यावरच ताबा नसतो. कोणत्याही कारणांस्तव आपण आपल्या आवडी-निवडी आणि निर्णय घेण्याची क्षमता ही इतर लोकांवर किंवा गोष्टींवर विसंबून ठेवतो, या गोष्टीचा गैरफायदा बऱ्याच वेळा होऊ शकतो आणि आपल्याच जवळची लोकं आपली फसवणूक करू शकतात.

आधी स्वतःशी करूया मैत्री!

ह्या सगळ्यात, "आपण खऱ्या अर्थात कोण आहोत?", "आपल्याला ह्या जीवनात काय साध्य करायचे आहे?", "आपण काय केल्यावर आपली सकारात्मकतेने वाढ होईल?" ह्या अश्या स्वतःबद्दलच्या अनेक प्रश्नांचा विचार करायला आपल्याला क्षणभर वेळ सुद्धा नसतो.

आपणच आपल्या स्वतःच्या आयुष्यात एक नंबर स्थानावर आहोत आणि आपणच आपल्या आयुष्यात जे काही घडतं ह्याचे कारणीभूत आहोत अशी समज जर आपण प्रत्येकाने क्षणोक्षणी जोपासली, तर सुख आणि समाधानाची भरभराट होऊ शकेल. आपण आपल्या स्वतःचेच जिवलग मित्र होऊ शकलो, तर आपल्याला इतर झटपट समाधान मिळण्याच्या साधनांची गरज देखील भासणार नाही आणि आपण दुसऱ्यांच्या प्रामाणिकरणावर अवलंबून राहणार नाही.

तर मित्रांनो, चला.... स्वतःशीच करूया मैत्री!



प्राध्यापक मेघना बोराटे
लागू विज्ञान आणि मानवता विभाग
(डिपार्टमेंट ऑफ अप्लाइड सायन्स अँड ह्युमॅनिटीज)

जग.... कोरोना नंतरच!

आज भारतासह अख्ख्या जगावर कोरोनाचे सावट आहे. मार्च-एप्रिल ला कोरोनाचा प्रादुर्भाव झाला आणि सगळे आपापल्या घरी बंदिस्त झाले. आज जवळ जवळ 7-8 महीने होम क्वारंटाइन अनुभवत आहोत. सतत बाहेर जाण्याची, लोकांमध्ये मिसळण्याची सवय असलेले आपण.... घरच्या चार भिंतींमध्ये कधी रुळत गेलो कळलेच नाही!

"इतके दिवस घरी कसं थांबायचं?", "बाहेरची कामे कशी करायची?" हे विचारणारे आपण आज अख्खं जग घरातून चालवत आहोत. म्हणजेच, कुठेतरी ह्या नित्यक्रमांची आपल्याला सवय झाली आहे. सगळी कामे घरबसल्या होण्यासाठी आपणच नवनवीन मार्ग शोधले आहेत. प्रगत तंत्रज्ञानामुळे आपलं फारसं कुठे अडलं नाही. पण या नंतर काय? कधीतरी बाहेर पडायचे आहे.... लोकांमध्ये मिसळायचे आहे.... खरंच, कसं असेल कोरोना नंतरचे जग??

जग.... कोरोना नंतरच!

सगळी लोकं भीतीपोटी पुढील वर्षभर तरी मास्क न घालता घराबाहेर पडणार नाहीत! सार्वजनिक ठिकाणी सुरक्षित अंतर ठेऊन लोकं वावरतील. हे तर सगळं होईलच पण माणसाच्या वैयक्तिक आयुष्यात देखील फार मोठा बदल होईल! ह्या कोरोना काळात स्वतः सोबत जास्तीत-जास्त वेळ घालवला असल्याने माणसांमधली सकारात्मकता आणि शक्ती काही वेगळीच असेल. ह्या काळात माणसांनी स्वतः मधील सुप्त गुण ओळखल्यामुळे त्यांचा जगाकडे बघण्याचा दृष्टिकोन बदलला असेल. पाश्चात्य संस्कृतीचे अनुकरण करता करता माणसाला आपल्या भारतीय संस्कृतीचा विसर पडला होता. या कोरोनाचे नियम पाळता पाळता त्याची भारतीय संस्कृतीशी नव्याने ओळख झाली. कुणाचही उष्ट खाऊ नये, समोर आलेल्या माणसाला नमस्कार करून त्याच स्वागत करावं, बाहेरून आल्यावर हात पाय धुतल्याशिवाय कोणतेही काम करू नये, ही भारतीय संस्कृती नकळत सगळ्यांच्या अंगवळणी पडली. पण खरंच कोरोना नंतरचे जग काही वेगळच असेल. प्रत्येकाला एक नवीन 'मी' सापडला असेल. आपण तर रोज बघतोय की कित्येक गृहीणींना स्वतः मधील कलाकार सापडला आहे, तर कित्येकांना स्वतः तील लेखकाची ओळख झाली. कितीतरी लोक ह्या ताळेबंदीमुळे स्वतःच्या आरोग्याला गंभीरपणे घेऊ लागले.... ही निश्चितच चांगली गोष्ट म्हणावी लागेल!

जग.... कोरोना नंतरच!

कोरोना नंतर कित्येक बंद असलेले व्यवसाय, नोकऱ्या पुन्हा चालू होतील. सगळ्यांना काम करण्याची नवी उमेद असेल. हां, आता घरी बसून बसून थोडा आळस येत असेल, पण पुन्हा सगळ्यांना भेटल्यावर आणि नवीन वातावरणात गेल्यावर काम करण्याची नवीन ऊर्जा नक्कीचं येईल!

लोकांचा रोजगार परत सुरु होईल, अडलेली कामे पूर्ण होतील.... खरं तर ह्या कोरोनानी सर्वांना आयुष्याकडे नि स्वतःकडे पाहण्याचा एक वेगळा दृष्टीकोन दिलाय! त्याच्या आधारे 'कोरोना नंतरचे जग' हे 'कोरोना आधीच्या जगापेक्षा' जास्त समजूतदार, जबाबदार आणि कर्तव्यदक्ष असेल अशी आशा करूया!

बाकी पुढचं पुढे!!!



- फाल्गुनी घाटे
(BE EXTC)



REPORTS

COMPUTER DEPARTMENT OF XIE



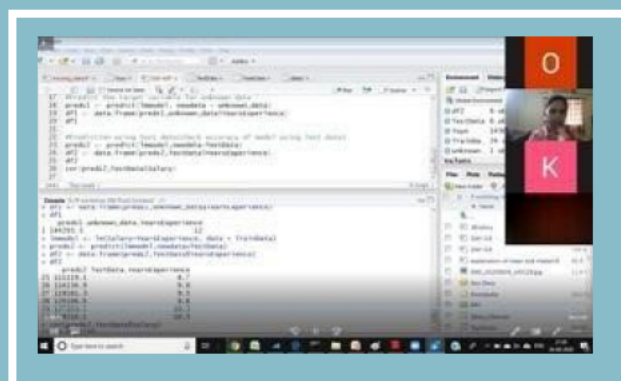
JAN 21-27

The Department of Computer Engineering organized a guest lecture on Q-Programming Language on Database on January 6, for the final year students of the department. It was conducted by Mr. Devesh Jain, President, Graduate Student Council at Stevens Institute of Technology, Hoboken, New Jersey, USA .



May 19 - June 1st

Two-hundred and fifty students and faculty from different regions of India had enrolled for the online workshop on Data Science using 'R' for Beginners from June 1-5, 2020, organized by the Computer Department of Xavier Institute of Engineering in collaboration with St. Xavier's College, Fort, were conducting and coordinating the event. The aim of workshop was to know the importance of R language in the field of Data Science and provided basics of R language, basics of statistics in data science, handling missing data and data visualization with the use of RStudio software.



MARCH 2-16

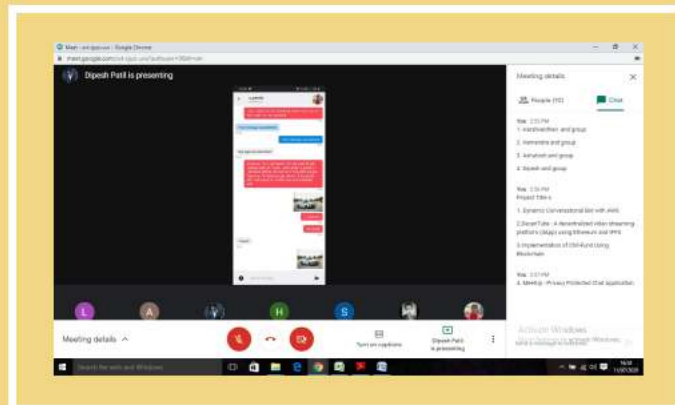
The Department of Computer Engineering arranged a guest Lecture which was held by our alumnus Mr. Ketan Joshi on "Devops Essentials and Tools" for the T.E students of the department on March 11. The topics covered in the lecture were the details on DevOps culture, project lifestyle of a DevOps model, concepts of Continuous Integration and Delivery followed by a Jenkins Demonstration.



November 3-16

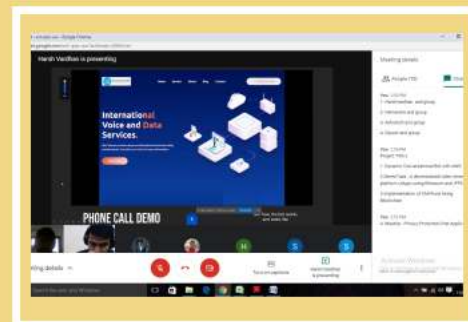
The Department of Computer Engineering organized a guest lecture on the topic "Search Algorithms in AI" for the T.E. students on November 3. Prof. Richard Joseph, an assistant Professor, from Vivekanand Education Society's Institute of Technology, was invited as guest lecturer and shared his views on understanding various Search Algorithm terminologies, properties of Search algorithms and demonstrating the animated view about their behavior.

I.T. DEPARTMENT OF XIE



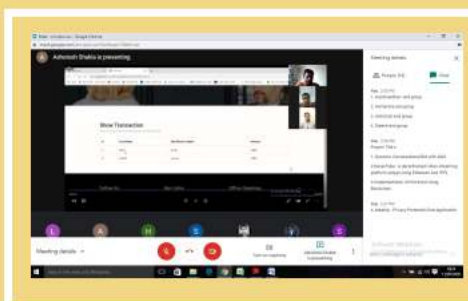
May 19 – June 1st

Forty-two faculty members from different regions of India have enrolled for the online FDP on Experiment Design and Optimization for Research in Machine Learning from June 1 to 12 2020, organised by the Department of Information Technology of XIE. The interactive sessions included topic discussions over types of research papers, selection of dataset for research, analysing and exploring the dataset, training the model using machine learning methods, and effectively presenting the results in research papers.



July 14–20:

XIE's Information Technology Department offered an online course on "Career Booster" for the students from June 9–14, 2020. The objective of the course was to prepare the students for any competitive exam, and increase the rate of placements. Mr. Sanket Rane conducted the sessions on Calculation tricks, shortcuts, Numbers (Basic and Power Cycle), Professional Growth (Resume Building, Grooming, GD/PI, Internship). Dr. Y. D Venkatesh, Principal of XIE and Prof. Chhaya Narvekar, motivated the students to make use of the opportunity to learn new techniques and make use of those in their career plan. The Project competition 2020 was organized by all the Departments of XIE on July 11. The competition provided an excellent opportunity for the students to showcase their talent, research orientation and untapped potential. Projects from different domains like Deep Learning, Artificial Intelligence, Internet of Things, Security and Mobile applications etc. The First, Second and Third place winners of the competition, received the prize amounts of Rs. 4,000/-, Rs. 3000/ and Rs.2000/-, respectively.



E.X.T.C. DEPARTMENT OF XIE

FEB 25- MARCH 2

The Department of Electronics and Telecommunication had arranged a talk on Bridging a Gap between Academia and Industry by Mr. Franklin Puthuva, an alumnus, for S.E. and T.E. students of the department on February 27, 2020. The talk included understanding the current functioning of the IT Industry in India, demand of jobs in India as of 2020, non-coding jobs and encouraging students for their involvement in extra-curricular activities.

June 9-15:

A six-week online Faculty Development Program on Introduction to LaTeX was offered by the Department of Electronics and Telecommunication from June 15-20. The students of S.E, T.E and B.E attended the five day session and understood topics from Styling pages, formatting contents, inserting tables and images, to referencing and indexing, presentation using beamer and thesis document, followed by a quiz which was conducted after every session.





NSS UNIT

Blood Donation Camp



A blood donation camp by Jagjivan Ram Railway Hospital, and the Jeevandaan Blood Donation Camp in association with Holy Family Hospital, was conducted by the NSS unit. Eighteen NSS volunteers from XIE participated and helped in motivating people to donate blood. The donors could donate only after a check-up that proved them to be healthy to do so. A total of 113 units of blood was contributed by the donors.



Mahim Beach Coastal Cleanup Drive



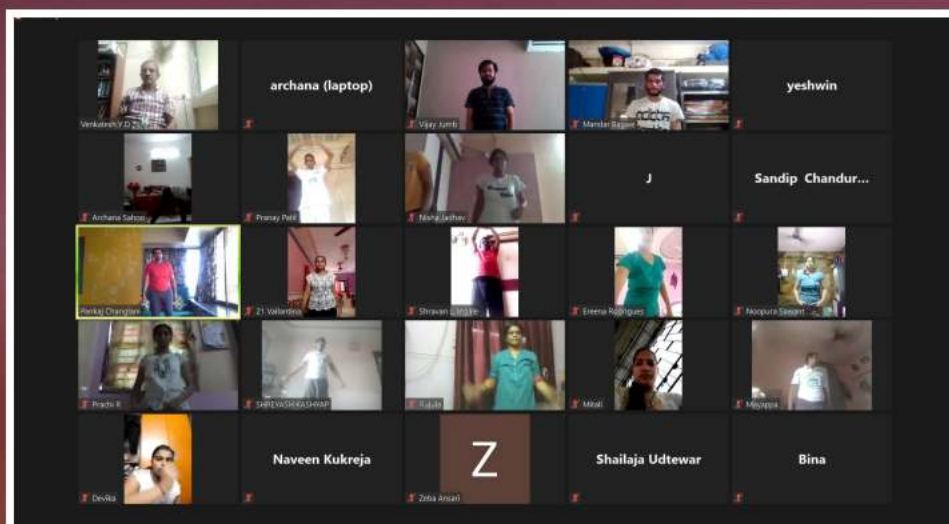
Twenty-six volunteers from XIE's NSS participated for Mahim Beach Coastal Cleanup Drive on the February 8, 2020. The clean-up drive helps illuminate the volunteers, the scale of marine plastic problems and the potential for solutions, and raise public awareness to the threat of debris more effectively than in less participatory public education programs.



International Yoga Day



On the occasion of International Yoga Day, NSS-XIE along with The Art of Living Foundation, organised a webinar for the students, staff and faculty members on June 21, 2020. The Principal of XIE, inaugurated the session which was conducted by two volunteers from the foundation who gave insightful tips to the participants on emotional quotient, handling stress, breathing techniques and maintaining emotional well-being during this pandemic.



World Photography Day



August 11-17:

On the occasion of World Photography Day which falls on August 19, NSS-XIE has organized a Photography Competition with the themes “Lockdown Stories” and “Nature’s View From Your Balcony”.



TED^x XIE 2020

The fifth edition of TEDxXIE: Redefining Reality, a nonpartisan nonprofit event devoted to spreading ideas, usually in the form of short, powerful talks was held on Feb 8, 2020.

The conference highlighted the speaker's aspects of navigating through life and overcoming various difficulties.

The fifth edition of TEDxXIE proved to be a night of self-discovery and learning and the attendees interacted with the speakers to gain their knowledgeable insights.



TED^x XIE 2020



ROSHNI CHOPRA
WELL-KNOWN ACTOR & ANCHOR



PRAGYA SABOO
PRODUCT MANAGER , OSCAR HEALTH NY



SONAL GOEL
IAS (AIR 13-2008)



VAIBHAV PRABHUNE
THE FOUNDER AND CEO OF KIKITO&CO



GEETIKA SAIGAL
AMAZON'S NO.1 BEST-SELLING AUTHOR



SIDDHARTHA JADHAV
MARATHI THEATRE & FILM ACTOR.

COMPUTER SOCIETY OF XAVIERITES



The Computer Society of Xavierites (CSX) organized a workshop on Advanced Python for the students on February 22-23. It was conducted by Elton Lemos and Shivang Medhekar, where topics like Maps, Filters, Dynamic Programming, and File Systems were covered followed by an introduction on solving basic coding problems. The workshop was attended by fifty-seven students and they learnt new approaches and ways in which one can code

The Android App Development event using Kotlin was organized during June 11-20, in which one hundred and fifty students and two faculty members participated. The workshop aimed at introducing the students to the basics of android application and development. Android Studios software was shared amongst the students for this workshop and by the end of the workshop, students were able to create an android application on their own.

The CSX has also organized its fourth program, an online coding event called Geeky Grinders on June 26th, conducted by Nikhil Lad and Himanshu Gharat, where the students of FE, SE, and TE had to generate an optimized solution for a given problem statement. This event encouraged students to practice competitive programming and make them aware of the various programming platforms which will provide useful for campus placements.

ENTREPRENEURSHIP CELL



The E-Cell of XIE had organized a one day workshop on Design Thinking for the students on March 7, 2020. Mr. Dilip Purohit, the Director at Capgemini elaborated on the key concepts in Design Thinking, briefed the students on the discovery phase of application development process, Business and operational process development, Organizational structure, and strategic areas like merges and acquisitions activities.



The E-Cell of XIE, successfully conducted their first event on 'Careers in Defence Post-Engineering' on Tuesday, 17th November via Zoom platform. The resource person for the same was Lt. Cdr. Bijay Nair, a decorated Indian Naval Officer and a war-veteran, also an author, blogger, marathoner and an anchor. Currently, he is the Associate Vice President and leads the compliance quality and audits for one of the nationally important and prestigious compliance body. He shared his journey and experience with the students through an interactive session, which was enriched by the intelligent questions asked by the students. His concluding message, 'Experience the Experience of Experiencing the Experience,' gave the students something to ponder on.



ALUMNI COMMITTEE



FEB 4-10

XIE's Alumni Committee had organized a guest lecture for students of S.E, I.T on January 30, 2020. The lecture was conducted by XIE's alumnus and a senior site reliability engineer and DevOps Architect at ZycusInfotech Pvt. Ltd, Mr. Kiran Bagwe, on the topic "How to be Industry Ready, features of Python and creating an industrial mindset." The speaker shared his knowledge about the current industry trends, various job roles and opportunities available, and the skill set requirements for the industry.

FEB 11-17

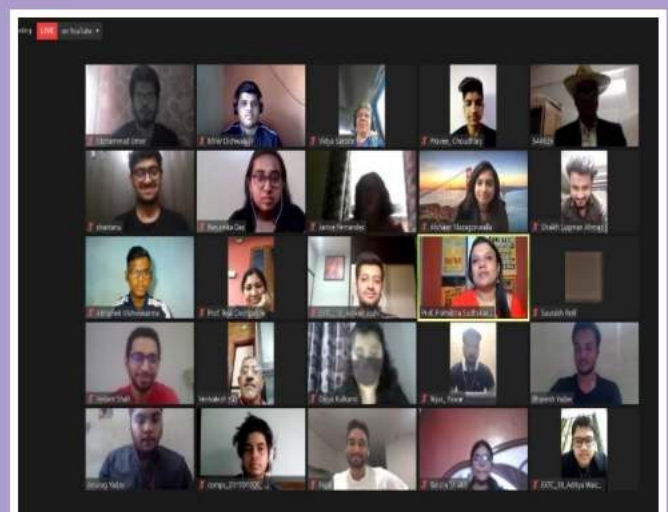
XIE's Alumni Committee had organized a guest lecture for the T.E. students from the departments of Information Technology and Computer Engineering on February 7, 2020 and it was conducted by XIE's alumnus Mr. Alvares Stefano, a Software Developer at Ocean IT Solutions, on the topic Project Selection Guidance. The objective of the lecture was to provide an insight about the current trends in the IT industry and help students narrow down their final year project topics based on the discussed topics. The speaker also shared his views on trending topics such as ML, AI, IOT, Block chain etc. and suggested a few frameworks on which the students could work, planning of the project, how to choose real world problems and providing a solution for the same.

May 12-18

XIE's alumnus Mr. Aditya Kumbhare conducted an online session on the topic Entrepreneurship and Start-up Opportunities for the students of S.E. and B.E. from all the branches on May 12, 2020. The speaker shared his thoughts and his own entrepreneurial journey, and discussed his "Catch-22" situation by taking a leap of faith while choosing a path post-graduation.

November 3-16

The Alumni Cell of XIE arranged a talk on "Higher Studies -How to Decode GRE, TOEFEL, IELTS" on November 8, 2020. XIE's Alumni, Fazal Sayed from the University of Melbourne, Australia, Afshaan Mazagonwalla from Carnegie Mellon University, Pennsylvania, US, Karl and Sheldon Passanha from the University of Toronto, Canada and Vedant Shah from the University of Maryland, US were the speakers. They provided an insight into university and domain selection, decision on what to pursue followed by the subject to be specialized in. Following the talk, was an interactive session with the students, where preparation techniques, availability of resources, and paper patterns were discussed.



WE BELIEVE IN ONE FAITH – HUMANITY

"We may have different religions, different languages, different colored skin, but we all belong to one human race." – Kofi Annan

The Interfaith Committee in XIE was initiated by Late Fr. Dr. Errol D'lima in the year 2018-2019. The Interfaith Committee inspires, educates, mobilizes people to unite across differences and plans events and activities that encourage understanding and respect among people of all religions, traditions, cultures, and philosophies.

The committee comprises staff belonging to different religious faiths. The committee members promote positive, meaningful relationships across differences to build the community and contribute to a more accepting campus environment along with a peaceful world. The Interfaith Group is meant to identify themes and inspirational events in different religions and celebrate these for the staff and students of XIE. The celebration will spell out the religious significance of the Founder and the respective festivals and their relevance to the society in the present context.

Activities conducted by Interfaith Committee:

On 3rd December, we celebrate the feast day of St. Francis Xavier. Xavier Institute of Engg & Xavier Technical Institute bears his name. He was one of the original sparks that started the fire of the Society of Jesus, a fire that kindled other fires. The life and mission of Saint Francis Xavier invites us to embark on an inward, ongoing discovery of life's meaning, a commitment of self-giving for others, a getting-out of oneself toward horizons more open to the world. The feast was celebrated by conducting inter-religious prayer service .

On 14th Oct 2019, Interfaith committee organized an Inter-religious session for the students and staff of XIE. The word religion comes from the Latin word religare, which means "to bind." A religion, therefore, is not merely a set of beliefs, but a set of beliefs that bind the believer. Religion imposes a kind of rule or regulation upon the believer's life. As Swami Vivekananda said, *"Religion is realization; not talk, nor doctrine, nor theories however beautiful they may be. It is being and becoming, not hearing, or acknowledging; it is the whole soul becoming what it believes."*

Interfaith events promote peace and harmony between all people regardless of faith, and a culture of non-violence, interreligious and intercultural understanding, and cooperation.

On 15th February 2020, Interfaith committee organized a session on “Nurturing Human Values” at Vinalaya for all Teaching and Non Teaching staff of XIE. Staff of XIE will always cherish the memories of such a beautiful, peaceful and blissful environment of Vinalaya.

On 31 st July, Xavierities around the world celebrate the feast of St. Ignatius Loyola, the Founder of the Society of Jesus. On the occasion of the Feast day, the Interfaith committee organised a webinar on “**The IGNATIAN way to respond in Covid -19**”. St. Ignatius invites you all to go forth and set the world on fire by showing more love in deeds than in words.

On 25th August 2020, a webinar on “Redefining Life in Covid-19” was organized. The unprecedented COVID-19 pandemic spread rapidly across nations and the country responded with lockdowns, forcing almost every individual to remain at home .Stressing every one of the countries it touches, it has the potential to create devastating social, economic and political effects. This webinar guided us to a new journey to look ahead with a new perspective towards life. Marie Curie has well said *“Nothing in life is to be feared, it is only to be understood. Now is the time to understand more, so that we may fear less.”*



**-PROF. MARTINA D'SOUZA
(DEPARTMENT OF INFORMATION TECHNOLOGY)
CONVENER, INTERFAITH COMMITTEE, XIE**

WOMEN DEVELOPMENT CELL

“Empowered women empower other women”- with this saying we realize empowerment comes in all spheres, be it mentally, physically, emotionally, and socially.

KNOWLEDGE is the new RICH and BRAVE is the new BEAUTIFUL. The Women Development Cell of the Institute grooms the young girls to face all the challenges of life teaching them to keep their mind strong and head held high. WDC at XIE has the vision of Women Empowerment and Gender Equality to make XIE campus gender sensitized. With the mission: To implant positive self-esteem and confidence in the girl students. Embolden girl students to be strong and economically independent by providing equal career opportunities. To make girl students aware about the social, legal and constitutional rights of women in order to prevent the exploitation based on gender and To make girl students acquainted about sexual, physical and mental kind of violence and to prepare them with the knowledge and strength to fight against them. The Cell has both the faculty and students of the institute as its members.

A women development cell in any institute signifies a safe campus for the students; it is also the sign of progression and exposed thinking. WDC is no longer only a legal committee on paper. The formation of a college level Women Development Cell was made mandatory by the University of Mumbai after the Vishaka Judgment in the year 2001.

At XIE, WDC stands tall with the STRONG support and VALUABLE guidance from our Dynamic Director Fr. Dr. John Rose SJ and our Powerful Principal Dr. Y.D. Venkatesh. In our well known and reputed Institute we provide secured, more protected, more open minded and a safer atmosphere to all the women of XIE. Our Director, Principal and the management along with WDC takes care of it.

The Women's Development Cell 2020-21 was formed on September 12, 2020. Its aims and objectives are: to organize seminars, workshops for creating general awareness among students, teachers, non-teaching staff and encourage their active participation in the activities of Cell, to prevent sexual harassment and promote general well-being of female students, teaching and non-teaching women staff of the institute.

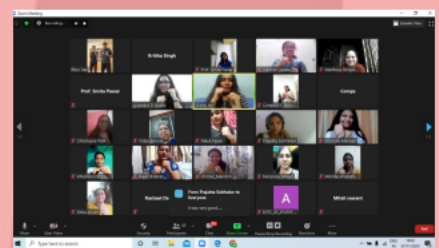
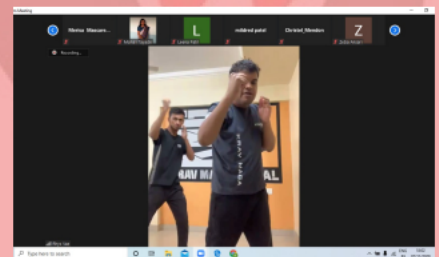
WDC has organized different events during the AY 2019-20 such as an Induction Program for FE, a Zumba trial session and a talk on "Violence against women"

WDC also had a grand celebration of Women's day in the month of March 2020; where the Chief Guest was honorable Mrs. R. Vimla, IAS, CEO, MSRLM.

Since the pandemic prevented the social conventions, a TALENT SHOW was conducted on 17th October on zoom, as a way to connect with each other and express their talents along with some light hearted cheerful games. A total of 80 people from faculty and students attended this event and helped dawn the realization about the girls and talents they possessed.

WDC-XIE conducted a self-defence workshop by Mr. Rhys Vaz, who is a Lead Trainer of Krav Maga Global Classes which are all over India and Has Trained over 15000 People in India, on 7th November.

Mr. Rhys Vaz and his assistant demonstrated the various ways in which women can face violent assaults and the different ways in which they can defend themselves efficiently.



**Prof. Smita Pawar
Convener, WDC, XIE**



XAVIER CENTRE FOR ADVANCED LEARNING



The inauguration of Xavier Centre for Advanced Learning took place on January 10, 2020 at XIE. The dignitaries, Mr. Julio Ribeiro (Retd. IPS), Mr. Jayakumar (IPS), Mr. Veeresh Prabhu (IPS), Mr. Venugopal Reddy (IAS), Mr. Rudolf D'Souza (IRS), Mr. T.C. Benjamin (IAS), Mr. Ramkrishnan (IRS), Ms. N. Ambika (IPS), Dr. Babu Pawar, Joint Metropolitan Commissioner, MMRDA, Dr. (Fr.) Keith D'Souza S.J., Rector, St. Xavier's College and Dr. Rajendra Shinde, Principal, St. Xavier's College shared their views on the competitive exams and pressed on the importance of youth, especially from Mumbai, to participate for these exams. The event was followed by IAS Strategy Discussion by Mr. Ritesh Handa, CEO of ALS Satellite Education, where he demonstrated the virtual assistance provided by his firm to the students who will be admitting themselves in Xavier Centre for Advanced Learning.

CONVOCAATION CEREMONY



XIE's 11th Convocation Ceremony was held on Saturday, January 11, 2020. The Chief Guests, Fr. Dr. Felix Raj, Mr. Veeresh Prabhu, IPS, Dr. Frank Trocki, and Dr. Saurabh Kwatra, graced the occasion with their presence along with Fr. Dr. John Rose and Dr. Y. D. Venkatesh. A total of 242 students from different departments attended this ceremony and celebrated their achievements of college life.



TELECOMMUNICATION SOCIETY OF XAVIERITES

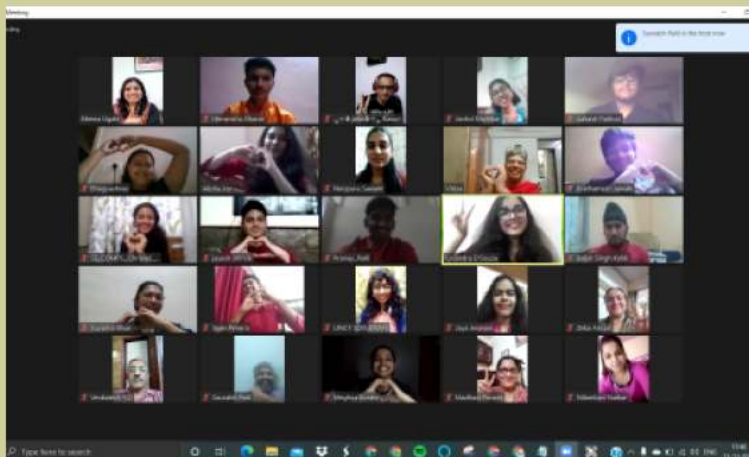


For a while, students of the Department of Electronics and Telecommunication had been searching for an opportunity to get more exposure in their own field of specialisation. Therefore, the Department has come up with Telecommunication Society Of Xavierites(TSX), the chapter which will create a centre of learning in the field of EXTC through webinars and various events in sync with advancements in technology. The Inauguration Ceremony for TSX was held on November 6, 2020 at 5:30 p.m. online in presence of Respected Director Fr. John Rose, beloved principal Dr. Y. D. Venkatesh, HOD's of all three branches and other staff members.

The committee members are Dr. Vidya Sarode (Convener), Prof. Leena Patil (Secretary), Prof. Panil Jain (Treasurer).

First event of TSX was held on 6th of December 2020 at 4 pm. The topic for the event was Mobile Technologies Evolution (from 2G to 5G) and speaker for the same Mr. Nagnath Kulkarni (Senior Manager at MTNL Mumbai). Our very own Ishika Shah(SE-EXTC) was the host for the event, it was commenced with a few words of guidance, support and best wishes from our director and principal. The speaker enlightened the audience(XIE and Non-XIE students) on the topic and took polls in between the talk making the event a bit more interesting. After the talk the audience showed enthusiasm by asking questions and nobody left the event with any doubt. E-certificates were provided to all the students. Altogether the first event of TSX was a great success.

CELEBRATIONS



Virtual Diwali Celebration

This year, due to pandemic, the council decided to celebrate “Diwali” through an online platform. This event was held on 14th November 2020 via Zoom. Conducting an online event is a big task, but the council along with its host Lysandra D’Souza(SE-COMPS) and Alisha Joy(SE-IT) and its entire team got together and made this event happen.

We had Sampada Matkar from TE-EXTC who sang beautiful and melodious songs which was then carried on by Chinamyee Patil from SE-COMPS who displayed her talent through the medium of dance, and ending the event with a group performance from Christel Mendon(SE- COMPS), Prathamesh Jawale(SE-IT) with its compilation done by Pratham Vichare(SE-IT).

The event was specially organized for our beloved staff members(both teaching and non-teaching) from all branches along with our Respected Director Fr. John Rose and Principal Dr. Y. D. Venkatesh.

Games like Antakshari, Guess the muted dialogue, and Guess the movie with the help of emojis were enjoyed thoroughly. Altogether it was a great and successful event conducted by the Student’s Council 2021.

Along with this, a small social media celebration was conducted where students shared their decorations for Diwali at their respective places.

Virtual Christmas Celebration

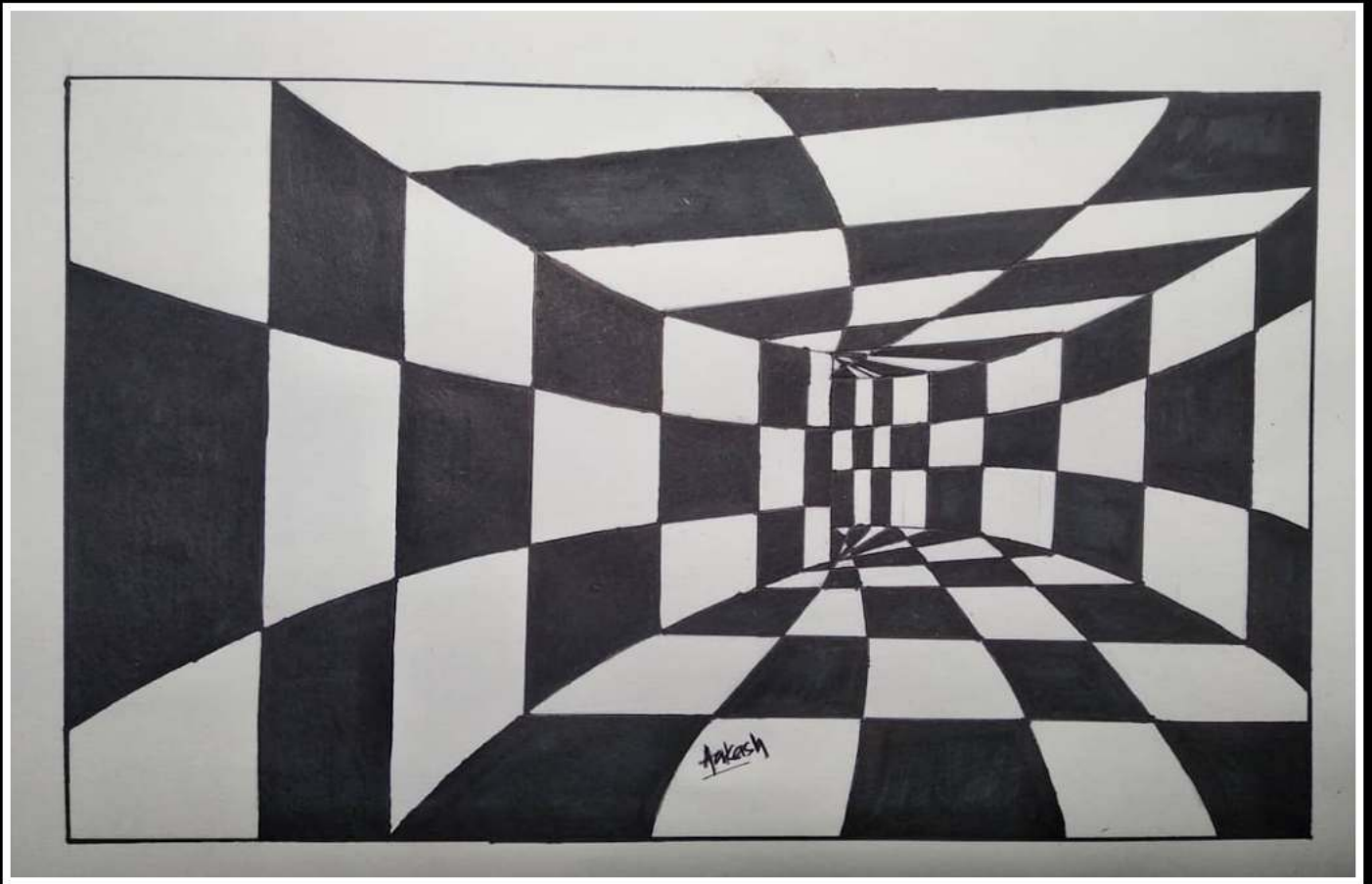
The Student Council along with the Interfaith Committee organised the Virtual Christmas celebration under the guidance of Prof. Martina D'Souza from IT Dept. The event was organised on 24th December 2020 via zoom for everyone, students and our beloved teachers, not only from our college but also from the Technical Institute. We had our chief guest Rev. Fr. Luke Rodrigues, SJ, who enlightened us with the importance of Christmas and shared some of his experiences and stories regarding the day. Our beloved Prof. Martina D'souza started the event by getting us through the importance of why it is called "Christmas". The rest of the event was taken over by our hosts, Baljot Singh Kohli(TE-IT) and Lincy Lois Brian(SE-COMPS). We had our own TE students who sang a Christmas carol together and enlightened everyone who were attending the event. Some games were also played after the carol. Later to wind-up the event, everyone shared their experience of celebrating Christmas in their own way. Altogether, the event was a success, ending the year and the event on a joyful note. Along with this, a small social media celebration was conducted where students shared their decorations for Christmas at their respective places.



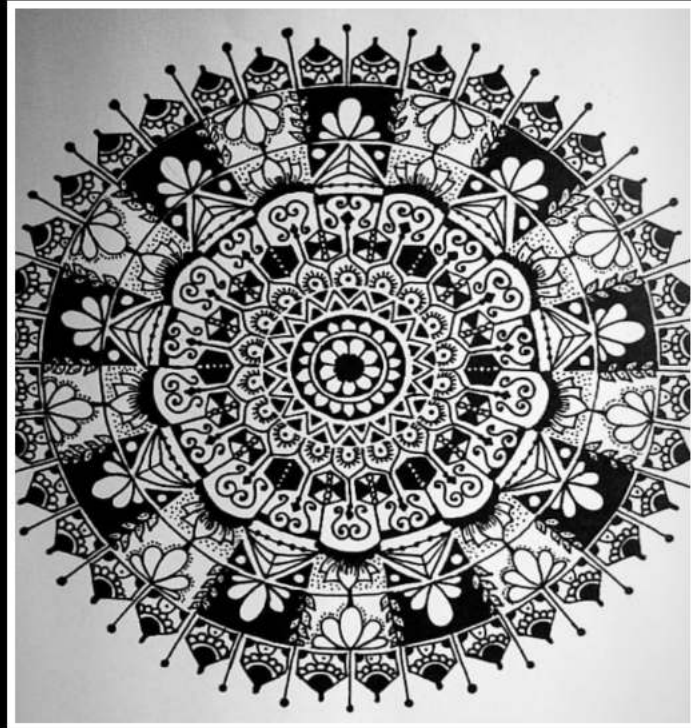


ART SECTION

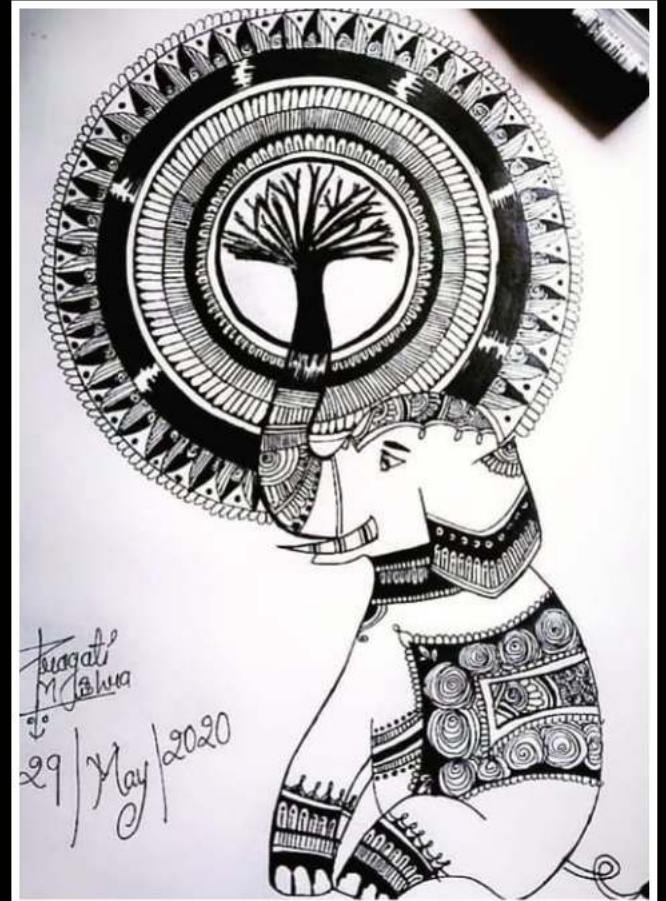




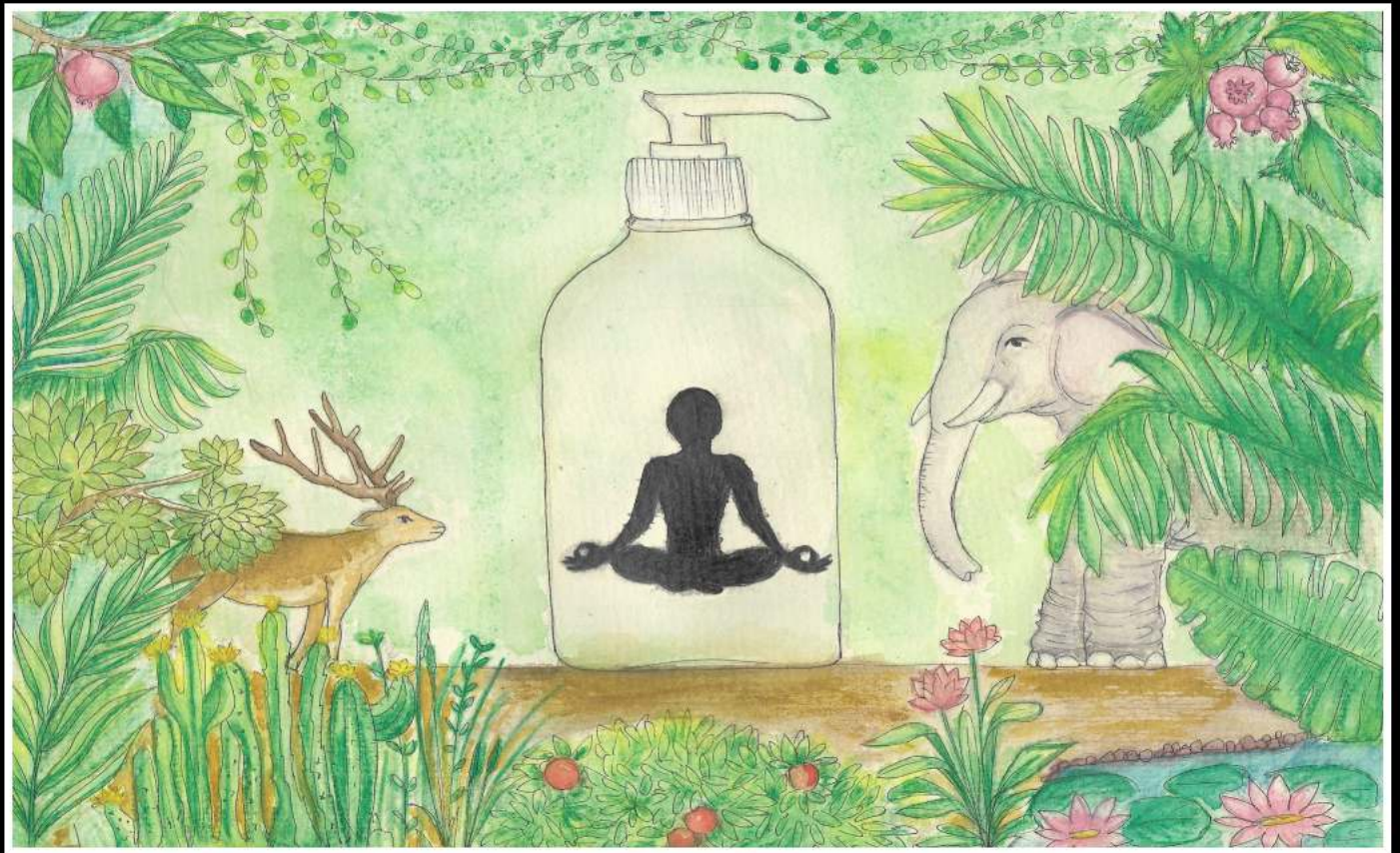
AAKASH RATHOD (TE IT)



NIDHI KAKDE (BE IT)



PRAGATI MISHRA (BE EXTC)



PROF. MEGHNA BORATE



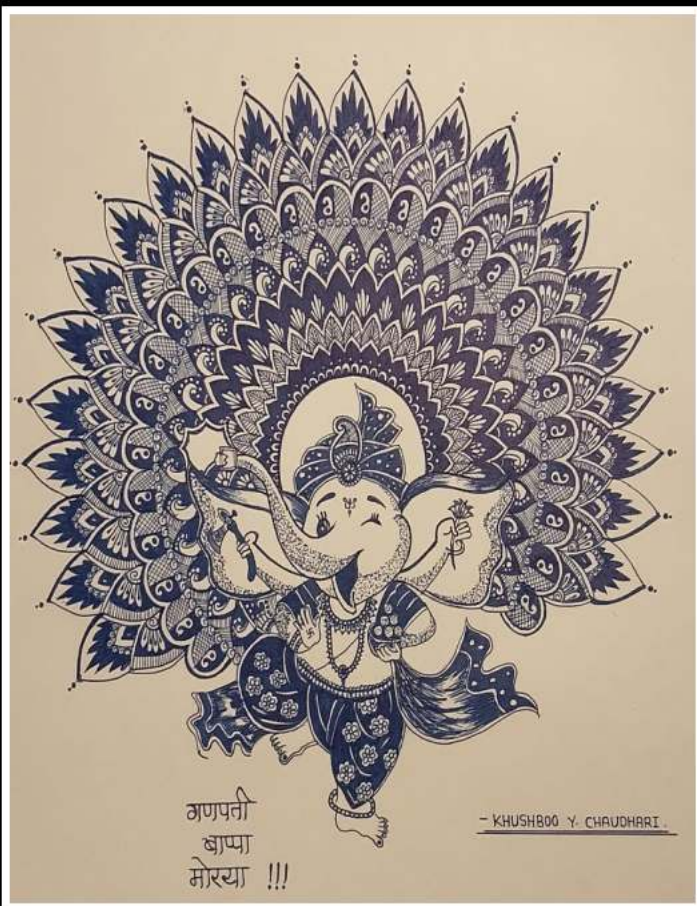
ABHIRUCHI PATIL (TE COMPS)



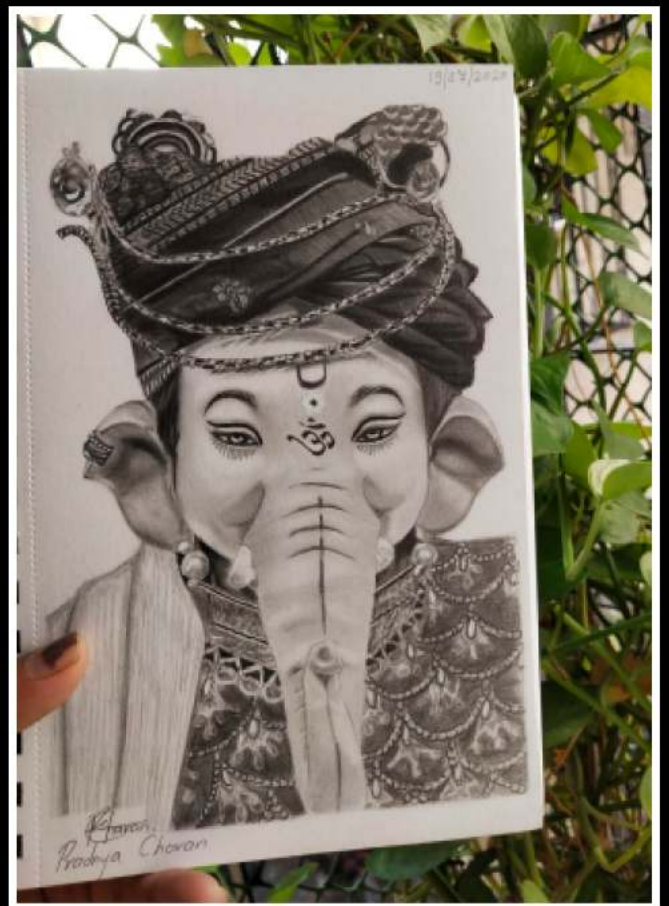
SHWETA RAJPUT (SE
EXTC)



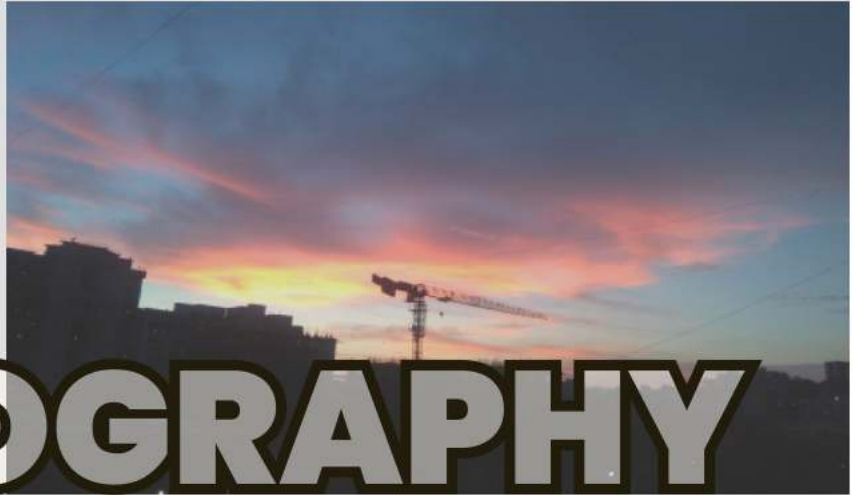
VENKETESH PRABHU (BE EXTC)



KHUSHBOO CHAUDHARI (SE IT)



PRADNYA CHAVAN (IT)



PHOTOGRAPHY SECTION





ABHISHEK VORA (BE IT)



YADNYT LONDHE
(SE COMPS)



ALEN DENNIS
(TE COMPS)



**YADNYT LONDHE
(SE COMPS)**

**PARTH GHUMARE
(TE COMPS)**



**ROHAN KHAMKAR
(TE EXTC)**



**VENKETESH PRABHU
(BE EXTC)**

**PARTH GHUMARE
(TE COMPS)**



**GANESH BAKSHEE
(SE EXTC)**

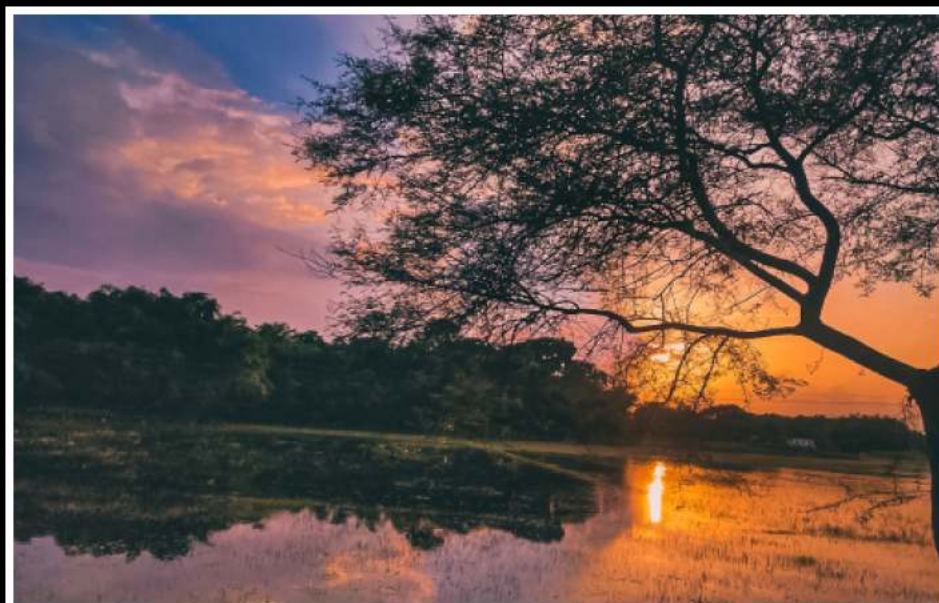


PHOTO GALLERY

MR. & MS. XAVIERS



OPEN MIC



TRADITIONAL DAY



SPANDAN(INTRA)



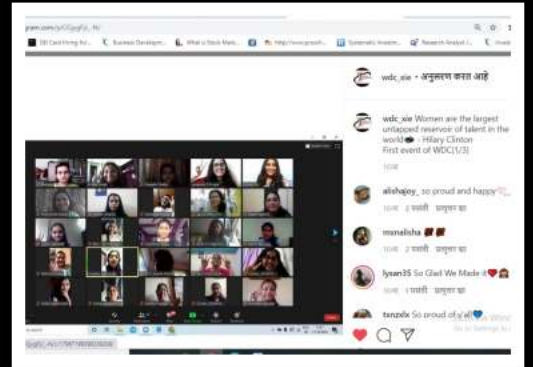
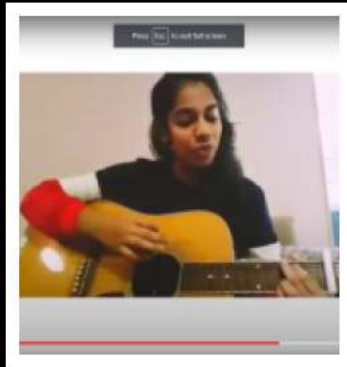
SPANDAN



SPANDAN



WDC TALENT SHOW



NATIONAL SCIENCE DAY



HOD FAREWELL

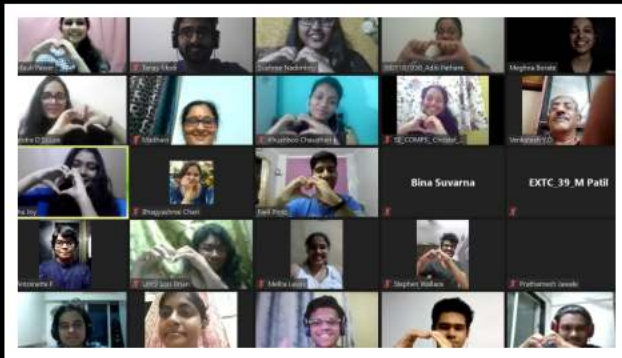
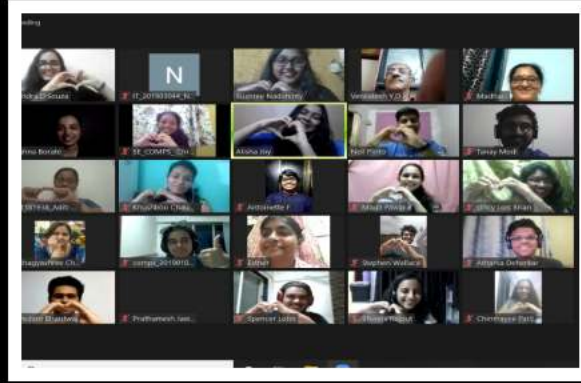


GARBA NIGHT

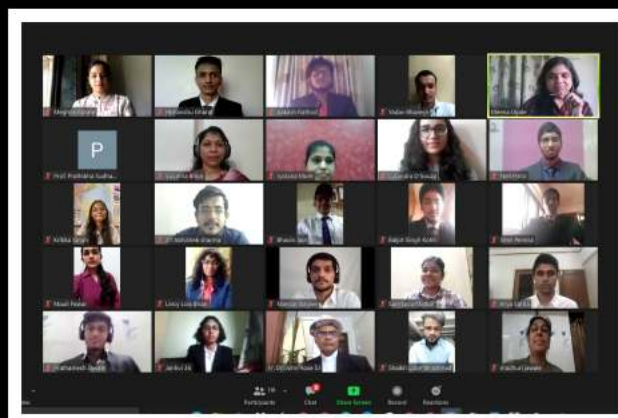
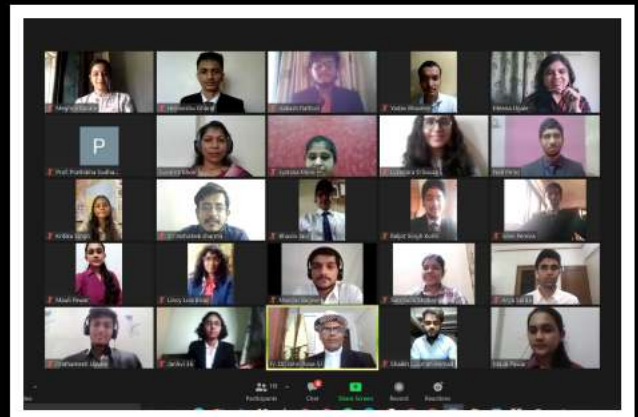
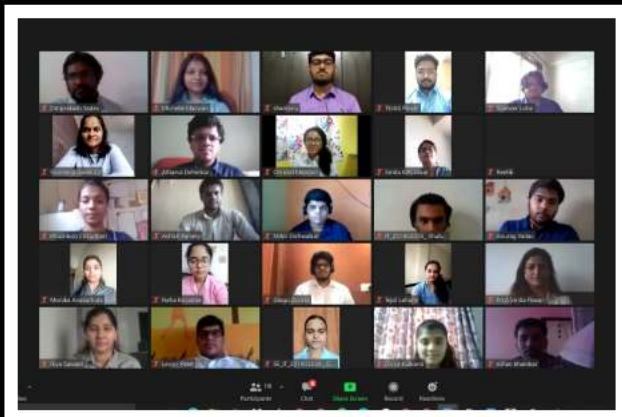
TREE PLANTATION DRIVE



MEGHNA MA'AM FAREWELL



OATH CEREMONY



“When eating fruit, remember the one who planted the tree.”

--- Vietnamese Proverb

Just as to eat the fruit, the tree must first be planted by someone, so also this magazine wouldn't have come to fruition if not for the support and guidance of a few people.

We express our heartfelt gratitude to our director Rev. Fr. Dr. John Rose, SJ, who motivated us to innovate and come up with a theme that resonates with the current situation and to make the best possible use of the resources available to us. Our sincere thanks to our Principal Dr. Y.D. Venkatesh for being our pillar of support. We thank our Head Curator Prof. Meghna Borate, for always being supportive in the creative decisions taken by the team. We are immensely grateful to Prof. Saniya Gonsalves for her help in reviewing the content of the magazine. We appreciate and thank our Ombudsman Rev. Fr. Dr. Lancy Prabhu, SJ, for helping with the copy editing process.

It is rightly said, *“Two pairs of eyes are better than one”*. We thank our faculty members Prof. Saurabh Patil (COMPS), Prof. Yashonanda Maurya, Prof. Shilpa Dingankar and Prof. Meghna Borate (Applied Sciences and Humanities) for proof-reading and providing their valuable inputs for the Technical, Hindi, Marathi and English sections respectively. We are eternally grateful to our amazing team for the hardwork and effort they put in to design this magazine. A special note of appreciation to the Graphics Team comprising Rohan Khamkar, Aakash Rathod, Tanay Modi (TE), Michelle Macwan, Leron Patel (SE). We are grateful to all the amazing faculty members and students who sent in their entries for the magazine.

Last but not the least, we thank the rest of the XIE family, our readers, who encourage us to provide such educational and fun content for reading.

Cheers!

Neil Pinto and Mauli Pawar (Chief Editors)



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